SEARCH TRANSCRIPT
10/052,362
-DON'T REMOVE

(1)

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	Jul 15	Data from 1960-1976 added to RDISCLOSURE
NEWS 5	Jul 21	Identification of STN records implemented
NEWS 6	Jul 21	Polymer class term count added to REGISTRY
NEWS 7	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 8	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 9	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 10	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 11	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 12	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 13	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS 14	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 15	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS 16	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Righ Truncation
NEWS 17	AUG 18	Simultaneous left and right truncation added to ANABSTR
NEWS 18	SEP 22	DIPPR file reloaded
NEWS 19	SEP 25	INPADOC: Legal Status data to be reloaded
NEWS 20	SEP 29	DISSABS now available on STN

NEWS EXPRESS	OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

(2)

FILE 'HOME' ENTERED AT 12:38:21 ON 03 OCT 2003

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:38:31 ON 03 OCT 2003
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STRUCTURE FILE UPDATES: 1 OCT 2003 HIGHEST RN 596788-60-2
DICTIONARY FILE UPDATES: 1 OCT 2003 HIGHEST RN 596788-60-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

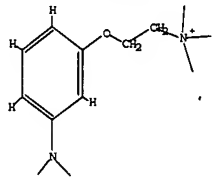
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading hair dye.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 12:39:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

(3)

BATCH **COMPLETE**
PROJECTED ITERATIONS: 6 TO 266
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 12:39:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 124 TO ITERATE

100.0% PROCESSED 124 ITERATIONS 19 ANSWERS
SEARCH TIME: 00.00.01

L3 19 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.55	148.76

FILE 'CAPLUS' ENTERED AT 12:39:37 ON 03 OCT 2003
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FILE COVERS 1907 - 3 Oct 2003 VOL 139 ISS 15
FILE LAST UPDATED: 2 Oct 2003 (20031002/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 4 L3

=> d 1-4 ibib abs hitstr

APPLICANTS

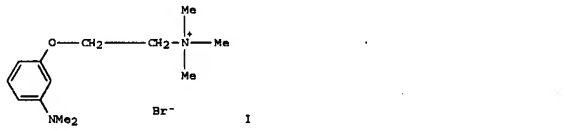
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:574888 CAPLUS
DOCUMENT NUMBER: 137:129540
TITLE: Novel couplers for use in oxidative hair dyeing
INVENTOR(S): Lim, Mu-Ill; Pan, Yuh-Guo; Wenke, Gottfried
PATENT ASSIGNEE(S): Clairol Incorporated, USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058655	A1	20020801	WO 2002-US1577	20020118

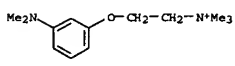
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002144361 A1 20021010 US 2002-52362 20020118
PRIORITY APPLN. INFO.: US 2001-263441P P 20010123
OTHER SOURCE(S): MARPAT 137:129540
GI

(4)

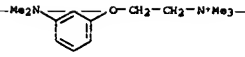


AB Couplers for hair coloring comps. for oxidative dyeing of hair are aminophenoxyethylammonium compds. E.g., comps. contain a combination of I, p-toluenediamine and o-aminophenol.
IT 444168-48-3 444168-51-8 444168-53-0
444168-54-1 444168-56-3 444168-58-5
444168-59-6 444168-60-9
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dialkylaminophenoxyethyltrialkylammonium couplers for oxidative hair dyes)
RN 444168-48-3 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 444168-51-8 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

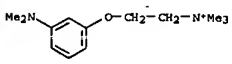


● Cl⁻

RN 444168-53-0 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

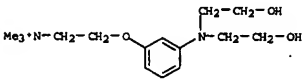
CRN 444168-52-9
CMF C13 H23 N2 O



CM 2

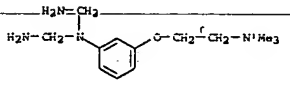
CRN 21228-90-0
CMF C H3 O4 S

RN 444168-54-1 CAPLUS
CN Ethanaminium, 2-[3-[bis(2-hydroxyethyl)amino]phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



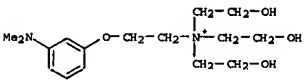
● Br⁻

RN 444168-56-3 CAPLUS
CN Ethanaminium, 2-[3-[bis(aminomethyl)amino]phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



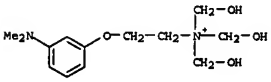
● Br⁻

RN 444168-58-5 CAPLUS
CN Ethanaminium, N-[2-[3-(dimethylamino)phenoxy]ethyl]-2-hydroxy-N,N-bis(2-hydroxyethyl)-, bromide (9CI) (CA INDEX NAME)



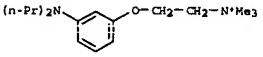
● Br⁻

RN 444168-59-6 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-tris(hydroxymethyl)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 444168-60-9 CAPLUS
CN Ethanaminium, 2-[3-(dipropylamino)phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

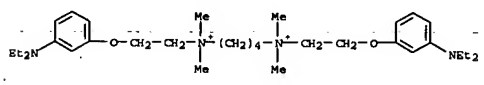
L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1974:84687 CAPLUS
Correction of: 1973:160898
DOCUMENT NUMBER: 80:84687
Correction of: 78:160898
TITLE: Disazo dyes
INVENTOR(S): Hegar, Gert; Angliker, Hans Joerg; Peter, Richard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Fed. Rep. Ger.
SOURCE: Patentschrift (Switz.), 20 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 532117	A	19730215	CH 1968-4625	19680328
CH 532117	A	19721231	CH 1968-532117	19680328
ES 354414	A1	19700216	ES 1968-354414	19680528
PRIORITY APPLN. INFO.:			CH 1967-7532	19670529
			CH 1968-4625	19680328

AB Disazo dyes contg. 2 azo dye residues connected by a bridging group contg. 1 or 2 quaternary ammonium groups were prepd. by coupling diazotized aniline or amino heterocyclic derivs. with a coupler comprising 2 aniline residues linked by the quaternary bridging group. These products dyed polyacrylonitrile fast shades. For example, a mixt. of p-MeC6H4SO3CH2CH2NEtPh PhNEtCH2CH2NMe2 was heated for 3 hr at 90-100.deg. to give coupler I(R =H) [29313-52-8], which was coupled with diazotized 2,4-Cl(O2N)C6H3NH2 to give disazo dye I(R = 2,4-Cl(O2N)C6H3N:N) [27692-90-6], lightfast red on acrylic fibers. Correction of CA 79:20297n. In another typical example, red azo dye II [51123-20-7] was prepd.

IT 29452-74-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 29452-74-2 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[3-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

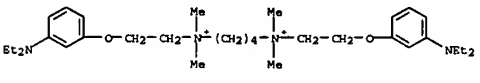
L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1973:160898 CAPLUS
DOCUMENT NUMBER: 78:160898
TITLE: Disazo dyes
INVENTOR(S): Hegar, Gert; Angliker, Hans Joerg; Peter, Richard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
SOURCE: Patentschrift (Switz.), 20 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 832117		19730215	CH 1968-4625	19680328

AB Disazo dyes (I) contg. 2 azo dye residues connected by a bridging group contg. 1 or 2 quaternary ammonium groups were prepd. from diazotized aniline or amino heterocyclic derivs. and a coupler contg. two aniline residues linked by groups contg. the quaternary groups; I were used to dye polyacrylonitrile fiber, fast shades. For example, a mixt. of Et(p-MeC6H4SO3CH2CH2)NPh and N-ethyl-N-[2-(dimethylamino)ethyl]aniline was heated for 3 hr at 90-100.deg. to give coupler II(R = H) [29313-52-8] which was coupled with diazotized 2,4-Cl(O2N)C6H3NH2 to give disazo dye II(R = 2,4-Cl(O2N)C6H3N:N) [27692-90-6], lightfast red on polyacrylonitrile. In another typical example azo dye (III) [39951-70-7] was prepd. red on polyacrylonitrile.

IT 29452-74-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 29452-74-2 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[3-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1970:521522 CAPLUS
DOCUMENT NUMBER: 73:121522
TITLE: Cationic azo dyes
PATENT ASSIGNEE(S): CIBA Ltd.
SOURCE: Fr., 32 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1576552	A	19690801	FR 1968-1576552	19680528
CH 505186	A	19710331	CH 1967-505186	19670529
US 3635940	A	19720118	US 1968-730943	19680521
NL 6807522	A	19681202	NL 1968-7522	19680528
BE 715848	A	19681129	BE 1968-715848	19680529
GB 1207249	A	19700930	GB 1968-1207249	19680529
US 3755287	A	19730828	US 1971-145005	19710519
PRIORITY APPLN. INFO.:			CH 1967-7532	19670529
			US 1968-730943	19680521

GI For diagram(s), see printed CA Issue.

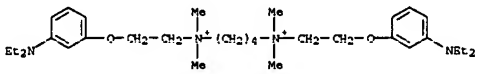
CLOSE

AB The title compds. (I and II) give fast red to olive green shades on acrylic fibers. Thus, PhNEtCH2CH2NMe2 was treated with PhNEtCH2CH2OSO2C6H4Me-p-in-EtOAc-to-give-(PhNEtCH2CH2)2NMe2--p-MeC6H4SO3- (III). Similarly 9 other coupling components were prepd. Diazotized 2,4-Cl(O2N)C6H3NH2 was coupled with III to give red I [Y = Z = 2,4-Cl(O2N)C6H3, n = 0, R = Me, X = p-MeC6H4SO3]. II and 4 other I were also prepd.

IT 29452-74-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 29452-74-2 CAPLUS

CN 1,4-Butanediaminium, N,N'-bis[2-[3-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)



● 2 Br⁻

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.65	169.41
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.60	-2.60

FILE 'REGISTRY' ENTERED AT 12:43:07 ON 03 OCT 2003
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STRUCTURE FILE UPDATES: 1 OCT 2003 HIGHEST RN 596788-60-2
DICTIONARY FILE UPDATES: 1 OCT 2003 HIGHEST RN 596788-60-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading hair dye.str

L5 STRUCTURE UPLOADED

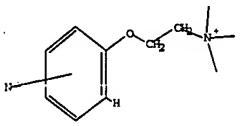
=> s l5
SAMPLE SEARCH INITIATED 12:43:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 261 TO ITERATE

100.0% PROCESSED 261 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**
	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	4251 TO	6189
PROJECTED ANSWERS:	106 TO	614

L6 18 SEA SSS SAM L5

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l5 sss full
FULL SEARCH INITIATED 12:43:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5056 TO ITERATE

100.0% PROCESSED 5056 ITERATIONS 361 ANSWERS
SEARCH TIME: 00.00.01

L7 361 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.15	317.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.60

FILE 'CAPLUS' ENTERED AT 12:43:36 ON 03 OCT 2003
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FILE COVERS 1907 - 3 Oct 2003 VOL 139 ISS 15
FILE LAST UPDATED: 2 Oct 2003 (20031002/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 102 L7

=> s l8 and meta
24251 META
107 METAS
24358 META
(META OR METAS)
L9 1 L8 AND META

=> d

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:77531 CAPLUS
DN 130:158259
TI Novel hair dye compositions containing cationic oxidation bases
IN Genet, Alain; Lagrange, Alain
PA L'Oreal, Fr.
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9903819	A1	19990128	WO 1998-FR1534	19980713
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	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2766177	A1	19990122	FR 1997-9027	19970716
	FR 2766177	B1	20000414		
	AU 9887354	A1	19990210	AU 1998-87354	19980713
	EP 968171	A1	20000105	EP 1998-938744	19980713
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2000503036	T2	20000314	JP 1999-506575	19980713
	JP 3379966	B2	20030224		
	JP 2002053534	A2	20020219	JP 2001-187071	19980713
	EP 1203762	A2	20020508	EP 2002-290042	19980713
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	US 6565614	B1	20030520	US 1999-254662	19990607
PRAI	FR 1997-9027	A	19970716		
	EP 1998-938744	A3	19980713		
	JP 1999-506575	A3	19980713		
	WO 1998-FR1534	W	19980713		

OS MARPAT 130:158259
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

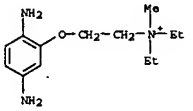
=> d abs hitstr

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AB The invention concerns novel monobenzene oxidn. bases comprising at least one cationic group bearing at least a cyclized or non-cyclized quaternary ammonium unit (Markush structure given), their use for oxidn. dyeing of keratin fibers, dyeing compns. contg. them and oxidn. dyeing methods using them. Thus, [2-(2,5-diaminophenoxy)ethyl]-diethyl-methylammonium chloride.2HCl.H2O (I) was prepd. by deacetylation of [2-(2-acetylamino-5-phenoxy)ethyl]-diethyl-methylammonium and presence of hydrochloric acid. An oxidative hair dye prepn. contained I 1.08, resorcin 0.33 and excipient q.s. 100 g. The compn. produced a blond color.

IT 220224-53-3
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(novel hair dye compns. contg. cationic oxidn. bases)

RN 220224-53-3 CAPLUS

CN Ethanaminium, 2-(2,5-diaminophenoxy)-N,N-diethyl-N-methyl-, chloride, monohydrate (9CI) (CA INDEX NAME)



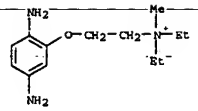
● Cl⁻

● H2O

IT 220224-24-8P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(novel hair dye compns. contg. cationic oxidn. bases)

RN 220224-24-8 CAPLUS

CN Ethanaminium, 2-(2,5-diaminophenoxy)-N,N-diethyl-N-methyl-, chloride, dihydrochloride (9CI) (CA INDEX NAME)



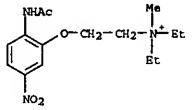
● Cl⁻

● 2 HCl

IT 220224-26-0P 220224-28-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(novel hair dye compns. contg. cationic oxidn. bases)
RN 220224-26-0 CAPLUS
CN Ethanaminium, 2-[2-(acetylamino)-5-nitrophenoxy]-N,N-diethyl-N-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 220224-25-9
CMF C15 H24 N3 O4



CM 2

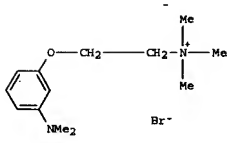
CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO3⁻

RN 220224-28-2 CAPLUS
CN Ethanaminium, 2-[2-(acetylamino)-5-aminophenoxy]-N,N-diethyl-N-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

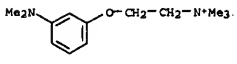
CM 1

CRN 220224-27-1
CMF C15 H26 N3 O2



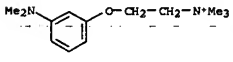
I

AB Couplers for hair coloring compns. for oxidative dyeing of hair are aminophenoxyethylammonium compds. E.g., compns. contain a combination of I, p-toluenediamine and o-aminophenol.
IT 444168-48-3 444168-51-8 444168-53-0
444168-54-1 444168-55-2 444168-56-3
444168-57-4 444168-58-5 444168-59-6
444168-60-9
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dialkylaminophenoxyethyltrialkylammonium couplers for oxidative hair dyes)
RN 444168-48-3 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 444168-51-8 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

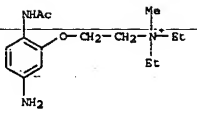


● Cl⁻

RN 444168-53-0 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 444168-52-9
CMF C13 H23 N2 O



CM 2

CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO3⁻

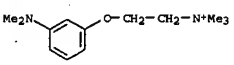
=> s l8 and amino
950230 AMINO
43 AMINOS
950248 AMINO
(AMINO OR AMINOS)
L10 18 L8 AND AMINO

=> d l-18 ibib abs hitstr

L10 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:574888 CAPLUS
DOCUMENT NUMBER: 137:129540
TITLE: Novel couplers for use in oxidative hair dyeing
INVENTOR(S): Lim, Mu-Ill; Pan, Yuh-Guo; Wenke, Gottfried
PATENT ASSIGNEE(S): Clairol Incorporated, USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058655	A1	20020801	WO 2002-US1577	20020118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002144361	A1	20021010	US 2002-52362	20020118

PRIORITY APPLN. INFO.: US 2001-263441P P 20010123
OTHER SOURCE(S): MARPAT 137:129540
GI

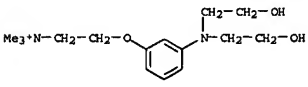


CM 2

CRN 21228-90-0
CMF C H3 O4 S

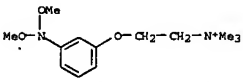
Me—O—SO3⁻

RN 444168-54-1 CAPLUS
CN Ethanaminium, 2-[3-[bis(2-hydroxyethyl)amino]phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



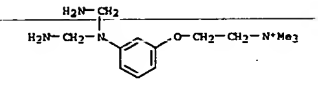
● Br⁻

RN 444168-55-2 CAPLUS
CN Ethanaminium, 2-[3-(dimethoxyamino)phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



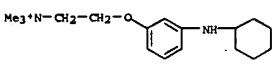
● Br⁻

RN 444168-56-3 CAPLUS
CN Ethanaminium, 2-[3-[bis(aminomethyl)amino]phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



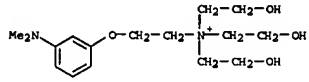
● Br^-

RN 444168-57-4 CAPLUS
CN Ethanaminium, 2-[3-(cyclohexylamino)phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



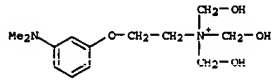
● Br^-

RN 444168-58-5 CAPLUS
CN Ethanaminium, N-[2-[3-(dimethylamino)phenoxy]ethyl]-2-hydroxy-N,N-bis(2-hydroxyethyl)-, bromide (9CI) (CA INDEX NAME)



● Br^-

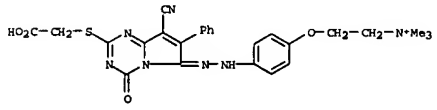
RN 444168-59-6 CAPLUS
CN Ethanaminium, 2-[3-(dimethylamino)phenoxy]-N,N,N-tris(hydroxymethyl)-, bromide (9CI) (CA INDEX NAME)



● Br^-

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(as dye for ink-jet ink with both good color hue and high lightfastness)

RN 420134-93-6 CAPLUS
CN Ethanaminium, 2-[4-[[2-[(carboxymethyl)thio]-8-cyano-4-oxo-7-phenylpyrrolo[1,2-a]-1,3,5-triazin-6(4H)-ylidene]hydrazino]phenoxy]-N,N,N-trimethyl-, chloride, monopotassium salt (9CI) (CA INDEX NAME)



● Cl^-

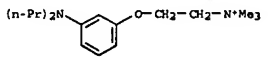
● K

L10 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:90031 CAPLUS
DOCUMENT NUMBER: 136:151190
TITLE: Preparation of novel 1,4-benzothiazepine and 1,5-benzothiazepine compounds as inhibitors of apical sodium co-dependent bile acid transport and taurocholate uptake
INVENTOR(S): Tremont, Samuel J.; Koeller, Kevin J.; Neumann, William L.
PATENT ASSIGNEE(S): G.D. Searle, LLC, USA
SOURCE: PCT Int. Appl., 561 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008211	A2	20020131	WO 2001-US23533	20010726
WO 2002008211	A3	20020808		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002183307	A1	20021205	US 2001-912233	20010725
PRIORITY APPLN. INFO.:			US 2000-220966P P	20000726
			US 2001-912233 A	20010725

OTHER SOURCE(S): MARPAT 136:151190
GI

RN 444168-60-9 CAPLUS
CN Ethanaminium, 2-[3-(dipropylamino)phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



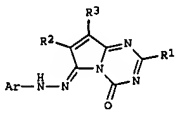
● Br^-

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:345024 CAPLUS
DOCUMENT NUMBER: 136:356530
TITLE: Hydrazone dye-based ink-jet ink composition with both good color hue and high lightfastness and related printing method
INVENTOR(S): Yanagihara, Naoto; Yumoto, Masatoshi; Shinjo, Yukiko
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002129072	A2	20020509	JP 2000-321770	20001020
PRIORITY APPLN. INFO.:			JP 2000-321770	20001020

OTHER SOURCE(S): MARPAT 136:356530
GI



I

AB Title ink compn. contains the compd. represented by the formula of I (Ar: aryl, heterocyclic group; R1-R3: H, halogen, CN, NH2, NO2, OH, COOH, SO3H, quaternary ammonium, CO2M1/n, SO3M1/n, alkyl, alkenyl, alkynyl, aryl, acyl, carbamoyl, sulfamoyl, alkoxycarbonyl, aryloxycarbonyl, acyloxy, alkoxy, aryloxy, alkylthio, arylthio, alkylsulfonyl, arylsulfonyl, alkylphosphoryl, arylphosphoryl, substituted amino group; M: metal atom; n: 1-4 integer). Thus, 4 parts of such a compd. were added to diethylene glycol 9, tetraethylene glycol monobutyl ether 9, glycerin 7, and diethanolamine 1 part to give a cyan ink compn. showing good ink-jet printing results.

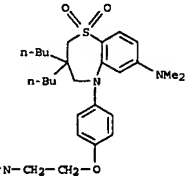
IT 420134-93-6

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R1 = CH3(CH2)3, CH3CH2; R2 = F, H, N(CH3)2; Y = CH2, NH; Z = NC6H5, 4-CH3OC6H4N, C6H5CH, 4-(CH3CH2)2NCH2CH2OC6H4N, 4-(CH3CH2)2NCH2CH2OC6H4CH, 4-CH3OC6H4CH, 4-(CH3CH2)3N+CH2CH2OC6H4CH, 4-(CH3CH2)3N+CH2CH2OC6H4N, 4-(CH3CH2)2NCH2CH2[OCH2CH2]2OC6H4CH, 4-(CH3CH2)2NCH2CH2[OCH2CH2]2OC6H4N; n = 1, 2], pharmaceutical compns., pharmaceutically acceptable salts, solvates, and prodrugs are prepd. and methods for the treatment of a hyperlipidemic condition in a subject are claimed. Title compds. I are apical sodium co-dependent bile acid transporter (ASBT) inhibitors and taurocholate uptake inhibitors and are in vitro tested for uptake of [14C]-alanine inhibition and in vivo tested in male Wister rats for IBAT inhibition effect by fecal bile acid content, using an enzymic assay. Thus, the title compd. II.cntdot.Cl was prepd. from 3-FC6H4NH2, NH4SCN, BrCH2C(CH2CH2CH2CH3)2COOH, and 4-IC6H4OCH3 via cyclization, decarboxylation, oxidn. of sulfur, amination, demethylation, and reacted with 4-ClCH2C6H4CH2Cl and 1,4-diazabicyclo[2.2.2]octane.

IT 393856-68-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzothiazepines as inhibitors of apical sodium co-dependent bile acid transport and taurocholate uptake)

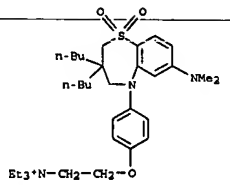
RN 393856-68-3 CAPLUS
CN Ethanaminium, 2-[4-[3,3-dibutyl-7-(dimethylamino)-3,4-dihydro-1,1-dioxido-1,5-benzothiazepin-5(2H)-yl]phenoxy]-N,N,N-triethyl-, iodide (9CI) (CA INDEX NAME)



● I^-

IT 393856-80-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of novel benzothiazepines as inhibitors of apical sodium co-dependent bile acid transport and taurocholate uptake)

RN 393856-80-9 CAPLUS
CN Ethanaminium, 2-[4-[3,3-dibutyl-7-(dimethylamino)-3,4-dihydro-1,1-dioxido-1,5-benzothiazepin-5(2H)-yl]phenoxy]-N,N,N-triethyl- (9CI) (CA INDEX NAME)



L10 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:626178 CAPLUS
DOCUMENT NUMBER: 131:262499
TITLE: Oxidative hair dyes containing cationic coupling agents
INVENTOR(S): Genet, Alain; Lagrange, Alain
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9948875	A1	19990930	WO 1999-FR576	19990315
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2776290	A1	19990924	FR 1998-3457	19980320
CA 2322992	AA	19990930	CA 1999-2322992	19990315
AU 9927351	A1	19991018	AU 1999-27351	19990315
EP 1064268	A1	20010103	EP 1999-907712	19990315
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002507605	T2	20020312	JP 2000-537858	19990315
US 6451068	B1	20020917	US 2000-646453	20001113

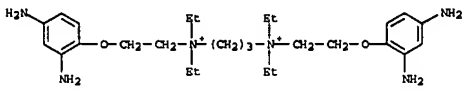
PRIORITY APPLN. INFO.: FR 1998-3457 A 19980320
WO 1999-FR576 W 19990315

OTHER SOURCE(S): MARPAT 131:262499

AB Novel di-benzene compds. comprising at least one cationic group Z, Z being selected among quaternized aliph. chains, aliph. chains comprising at least a quaternized satd. cycle, and aliph. chains comprising at least a quaternized unsatd. cycle, and their use as coupling agents in oxidn. dyeing of keratinous fibers are claimed. Thus, 1,4-bis-1-{3-[3-(2,4-diamino-phenoxy)propyl]-3H-imidazol-1-ium}butane dichloride.4HCl.H2O (I) was prepd. by deacetylation of 1,4-bis-1-{3-[3-(2,4-diamino-phenoxy)propyl]-3H-imidazol-1-ium}butane dichloride by HCl. A hair dye contained I 1.13, paraphenylenediamine 0.324, and water and excipients q.s. 100 g. Equal amts. of the compn. and 20% hydrogen peroxide were mixed and applied on the hair for 30 min, the hair was then rinsed with water, washed and dried.

IT 245040-94-2
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oxidative hair dyes contg. cationic coupling agents)

RN 245040-94-2 CAPLUS
CN 1,3-Propanediaminium, N,N'-bis[2-(2,4-diaminophenoxy)ethyl]-N,N,N',N'-tetraethyl-, dibromide (9CI) (CA INDEX NAME)



● 2 Br⁻

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:77531 CAPLUS
DOCUMENT NUMBER: 130:158259
TITLE: Novel hair dye compositions containing cationic oxidation bases
INVENTOR(S): Genet, Alain; Lagrange, Alain
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9903819	A1	19990128	WO 1998-FR1534	19980713
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2766177	A1	19990122	FR 1997-9027	19970716
FR 2766177	B1	20000414		
AU 9887354	A1	19990210	AU 1998-87354	19980713
EP 968171	A1	20000105	EP 1998-938744	19980713
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000503036	T2	20000314	JP 1999-506575	19980713
JP 3379966	B2	20030224		
JP 2002053534	A2	20020219	JP 2001-187071	19980713
EP 1203762	A2	20020508	EP 2002-290042	19980713
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
US 6565614	B1	20030520	US 1999-254662	19990607

PRIORITY APPLN. INFO.: FR 1997-9027 A 19970716

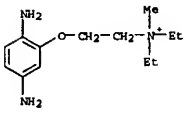
EP 1998-938744 A3 19980713
JP 1999-506575 A3 19980713
WO 1998-FR1534 W 19980713

OTHER SOURCE(S): MARPAT 130:158259

AB The invention concerns novel monobenzene oxidn. bases comprising at least one cationic group bearing at least a cyclized or non-cyclized quaternary ammonium unit (Markush structure given), their use for oxidn. dyeing of keratin fibers, dyeing compns. contg. them and oxidn. dyeing methods using them. Thus, [2-(2,5-diaminophenoxy)ethyl]-diethyl-methylammonium chloride.2HCl.H2O (I) was prepd. by deacetylation of [2-(2-acetylamino-5-phenoxy)ethyl]-diethyl-methylammonium and presence of hydrochloric acid. An oxidative hair dye prepn. contained I 1.08, resorcin 0.33 and excipient q.s. 100 g. The compn. produced a blond color.

IT 220224-53-3
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(novel hair dye compns. contg. cationic oxidn. bases)

RN 220224-53-3 CAPLUS
CN Ethanaminium, 2-(2,5-diaminophenoxy)-N,N-diethyl-N-methyl-, chloride, monohydrate (9CI) (CA INDEX NAME)

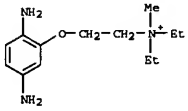


● Cl⁻

● H2O

IT 220224-24-8P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(novel hair dye compns. contg. cationic oxidn. bases)

RN 220224-24-8 CAPLUS
CN Ethanaminium, 2-(2,5-diaminophenoxy)-N,N-diethyl-N-methyl-, chloride, dihydrochloride (9CI) (CA INDEX NAME)



● Cl⁻

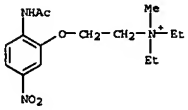
● 2 HCl

IT 220224-26-0P 220224-28-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(novel hair dye compns. contg. cationic oxidn. bases)

RN 220224-26-0 CAPLUS
CN Ethanaminium, 2-[2-(acetylamino)-5-nitrophenoxy]-N,N-diethyl-N-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 220224-25-9
CMF C15 H24 N3 O4



CM 2

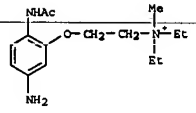
CRN 21228-90-0
CMF C H3 O4 S

Me—O—SO3⁻

RN 220224-28-2 CAPLUS
CN Ethanaminium, 2-[2-(acetylamino)-5-aminophenoxy]-N,N-diethyl-N-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 220224-27-1
CMF C15 H26 N3 O2



CM 2

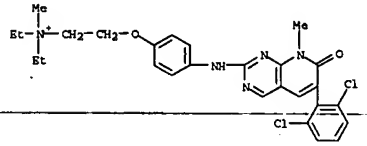
CRN 21228-90-0
CMF C H3 O4 S

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:496546 CAPLUS
DOCUMENT NUMBER: 129:211390
TITLE: 2-Substituted Aminopyrido[2,3-d]pyrimidin-7(8H)-ones. Structure-Activity Relationships Against Selected Tyrosine Kinases and in Vitro and in Vivo Anticancer Activity
AUTHOR(S): Klutchko, Sylvester R.; Hamby, James M.; Boschelli, Diane H.; Wu, Zhipei; Kraker, Alan J.; Amar, Aneesa M.; Hartl, Brian G.; Shen, Cynthia; Klohs, Wayne D.; Steinkampf, Randall W.; Driscoll, Denise L.; Nelson, James M.; Elliott, William L.; Roberts, Billy J.; Stoner, Chad L.; Vincent, Patrick W.; Dykes, Donald J.; Panek, Robert L.; Lu, Gina H.; Major, Terry C.; Dahring, Tawny K.; Hallak, Hussein; Bradford, Laura A.; Showalter, H. D. Hollis; Doherty, Annette M.
CORPORATE SOURCE: Departments of Chemistry Cancer Research Vascular and Cardiac Diseases and Pharmacokinetics and Drug Metabolism Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, Ann Arbor, MI, 48105, USA
SOURCE: Journal of Medicinal Chemistry (1998), 41(17), 3276-3292
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB While engaged in therapeutic intervention against a no. of proliferative diseases, we have discovered the 2-aminopyrido[2,3-d]pyrimidin-7(8H)-ones as a novel class of potent, broadly active tyrosine kinase (TK) inhibitors. An efficient route was developed that enabled the synthesis of a wide variety of analogs with substitution on several positions of the template. Compds. of this series were competitive with ATP and displayed submicromolar to low nanomolar potency against a panel of TKs, including receptor (platelet-derived growth factor, PDGFr; fibroblast growth factor, FGFr; epidermal growth factor, EGFr) and nonreceptor (c-Src) classes. One of the more thoroughly evaluated members was 63 with IC50 values of 0.079 .mu.M (PDGFr), 0.043 .mu.M (bFGFr), 0.044 .mu.M (EGFr), and 0.009 .mu.M (c-Src). In cellular studies, 63 inhibited PDGF-mediated receptor autophosphorylation in a no. of cell lines at IC50 values of 0.026-0.002 .mu.M and proliferation of two PDGF-dependent lines at 0.3 .mu.M. It also caused inhibition of soft agar colony formation in three cell lines that overexpress the c-Src TK, with IC50 values of 0.33-1.8 .mu.M. In in vivo studies against a panel of seven xenograft tumor models with known and/or inferred-dependence-on-the-EGFr,-PDGFr,-and-c-Src-TKs,-compd.-63-produced a tumor growth delay of 10.6 days against the relatively refractory SK-OV-3 ovarian xenograft and also displayed activity against the HT-29 tumor. In rat oral bioavailability studies, compd. 63 plasma concns. declined in a biexponential manner, and systemic plasma clearance was high relative to liver blood flow. Finally, in rat metab. studies, HPLC chromatog. identified two metabolites of 63. Because of the excellent potency of 63 against selected TKs, in vitro and in vivo studies are underway for this compd. in addnl. tumor models dependent upon PDGFr, FGFr, and c-Src to assess its potential for advancement to clin. trials.

IT 212391-65-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of aminopyridopyrimidinones as tyrosine kinase inhibitors and anticancer agents)
RN 212391-65-6 CAPLUS
CN Ethanaminium, 2-[4-[(6-(2,6-dichlorophenyl)-7,8-dihydro-8-methyl-7-oxopyrido[2,3-d]pyrimidin-2-yl]amino]phenoxy]-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

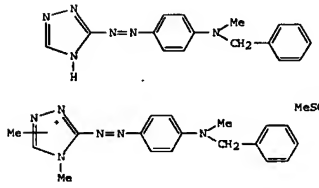
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1988:23319 CAPLUS
DOCUMENT NUMBER: 108:23319
TITLE: Method for manufacture of highly concentrated cationic dye solutions
INVENTOR(S): Hohmann, Kurt; Mischke, Peter
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 11 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3602587	A1	19870730	DE 1986-3602587	19860129
DE 3602587	C2	19880114		
PRIORITY APPLN. INFO.:			DE 1986-3602587	19860129

OTHER SOURCE(S): CASREACT 108:23319

GI

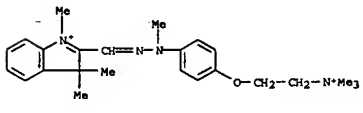


AB The storage-stable title solns., useful for dyeing or printing of textile materials, are prepd. by the alkylation of basic dyes in water or aq. org. solvents. Thus, I (prepd. by coupling diazotized 3-amino-1,2,4-triazole with N-benzyl-N-methylaniline) was dissolved in a mixt. of water and MgO, and alkylated with di-Me sulfate forming II. AcOH was added, the mixt. heated to 60-70.degree. for 2-3 h, aq. 25% NH4OH soln. added to pH 2, the mixt. stirred and filtered to give a highly concd. title dye soln.

IT 111372-94-2P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye, manuf. of, and formulation into highly concd. storage-stable solns.)
RN 111372-94-2 CAPLUS
CN 3H-Indolium, 1,3,3-trimethyl-2-[[methyl[4-[2-(trimethylammonio)ethoxy]phenyl]hydrazono]methyl]-, bis(methyl sulfate) (9CI) (CA INDEX NAME)

CM 1

CRN 78568-84-0
CMF C24 H34 N4 O



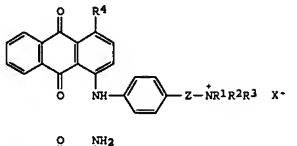
CM 2

CRN 21228-90-0
CMF C H3 O4 S

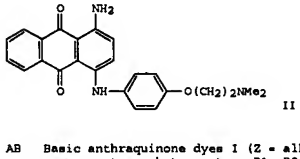
L10 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1977:553416 CAPLUS
DOCUMENT NUMBER: 87:153416
TITLE: Improvements in and relating to water-soluble anthraquinone dyes
INVENTOR(S): Dawson, John Frederick; Jackson, Malcolm Stewart
PATENT ASSIGNEE(S): Yorkshire Chemicals Ltd., UK
SOURCE: Brit., 10 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1454286	A	19761103	GB 1973-47001	19741001
PRIORITY APPLN. INFO.:			GB 1973-47001	19741001

GI



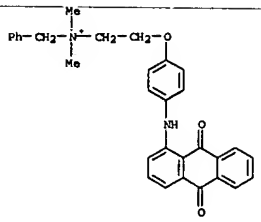
I



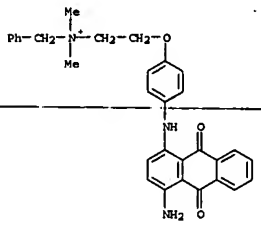
II

AB Basic anthraquinone dyes I (Z = alkylene optionally contg. a hetero atom, group contg. a hetero atom; R1, R2 = alkyl; R3 = aralkyl; R4 = H, OH, amino; X- = Cl, Br, p-MeC6H4SO3) dye acrylic-fibers with improved fastness and have Compatibility Values (J. Soc. Dyers and Colorists, 1972, 88, 220) lower than those of unquaternized I or I (R3 = alkyl). Thus, anthraquinone dye (II) (62346-40-1) prepd. in 1 step from 4-(2'-dimethylaminoethoxy)aniline (62345-76-0) and 1-amino-4-bromoanthraquinone-2-sulfonic acid Na salt (6258-06-6) was quaternized with PhCH2Cl to give I (Z = O(CH2)2, R1 = R2 = Me, R3 = PhCH2, R4 = NH2, and X = Cl) (III), which dyed polyacrylonitrile yarn a fast blue shade. Compatibility Values of III, II, and Me2SO-quaternized II were 1.0, 3.0, and 3.0, resp. Six other anthraquinone dyes I and their Compatibility Values were also given.

IT 62345-74-8P 62346-41-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of, for dyeing acrylic fibers)
RN 62345-74-8 CAPLUS
CN Benzenemethanaminium, N-[2-[4-[(9,10-dihydro-9,10-dioxo-1-anthracenyl]amino]phenoxy]ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 62346-41-2 CAPLUS
CN Benzenemethanaminium, N-[2-[4-[(4-amino-9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]phenoxy]ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAMES)



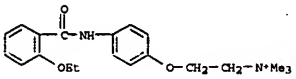
L10 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1975:4036 CAPLUS
DOCUMENT NUMBER: 82:4036
TITLE: Pharmaceutical N-(2-hydroxybenzoyl)-4-[2-(dialkylamino)ethoxy]anilines
INVENTOR(S): Ghelardoni, Mario; Pestellini, Vittorio; Volterra, Giovanna; Pisanti, Nicola
PATENT ASSIGNEE(S): Menarini, A., S.a.S.
SOURCE: Ger. Offen., 19 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2309986	A1	19740829	DE 1973-2309986	19730228
PRIORITY APPLN. INFO.:			DE 1973-2309986	19730228

AB Twelve 4-R2NCH2CH2OC6H4-NHCOC6H4OR1-2 [R = Me or Et; R1 = H, C1-8 alkyl, PhCH2, Ph(CH2)2, or Ph(CH2)3] and their methobromides, useful as spasmolytics and vasodilators, were prepd. by reaction of 2-R1OC6H4COCl with 4-H2NC6H4OCH2CH2NR2 (from 4-H2NC6-H4OH and ClCH2CH2NR2), optionally followed by quaternization with MeBr.

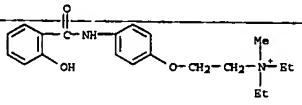
IT 54090-24-3P 54184-08-6P 54184-09-7P
54184-10-0P 54184-11-1P 54184-12-2P
54184-13-3P 54184-14-4P 54184-15-5P
54184-16-6P 54184-17-7P 54184-18-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and spasmolytic and vasodilating activity of)

RN 54090-24-3 CAPLUS
CN Ethanaminium, 2-[4-[(2-ethoxybenzoyl)amino]phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



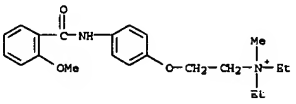
● Br⁻

RN 54184-08-6 CAPLUS
CN Ethanaminium, N,N-diethyl-2-[4-[(2-hydroxybenzoyl)amino]phenoxy]-N-methyl-, bromide (9CI) (CA INDEX NAME)



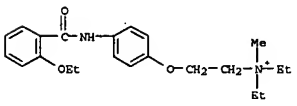
● Br⁻

RN 54184-09-7 CAPLUS
CN Ethanaminium, N,N-diethyl-2-[4-[(2-methoxybenzoyl)amino]phenoxy]-N-methyl-, bromide (9CI) (CA INDEX NAME)



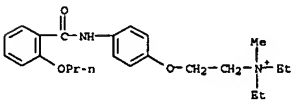
● Br⁻

RN 54184-10-0 CAPLUS
CN Ethanaminium, 2-[4-[(2-ethoxybenzoyl)amino]phenoxy]-N,N-diethyl-N-methyl-, bromide (9CI) (CA INDEX NAME)



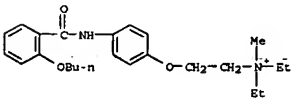
● Br⁻

RN 54184-11-1 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[(2-propoxybenzoyl)amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



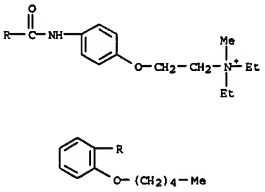
● Br⁻

RN 54184-12-2 CAPLUS
CN Ethanaminium, 2-[4-[(2-butoxybenzoyl)amino]phenoxy]-N,N-diethyl-N-methyl-, bromide (9CI) (CA INDEX NAME)



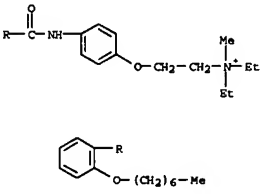
● Br⁻

RN 54184-13-3 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(pentyloxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



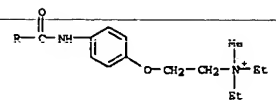
● Br⁻

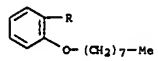
RN 54184-14-4 CAPLUS
CN Ethanaminium, N,N-diethyl-2-[4-[[2-(heptyloxy)benzoyl]amino]phenoxy]-N-methyl-, bromide (9CI) (CA INDEX NAME)



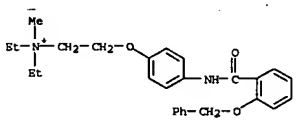
● Br⁻

RN 54184-15-5 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(octyloxy)benzoyl]amino]phenoxy]- (9CI) (CA INDEX NAME)



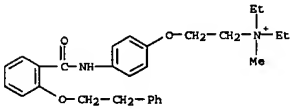


RN 54184-16-6 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(phenylmethoxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



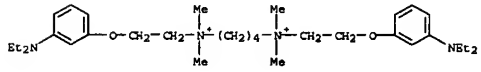
● Br⁻

RN 54184-17-7 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(2-phenylethoxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

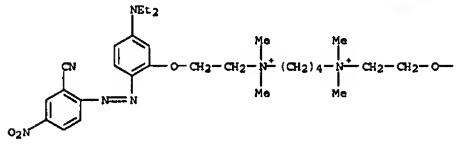
RN 54184-18-8 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(3-phenylpropoxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



●2 Br⁻

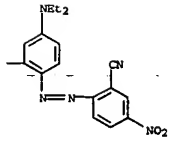
RN 29452-77-5 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[2-[(2-cyano-4-nitrophenyl)azo]-5-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)

PAGE 1-A

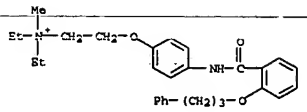


●2 Br⁻

PAGE 1-B



L10 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1973:160898 CAPLUS
DOCUMENT NUMBER: 78:160898
TITLE: Disazo dyes
INVENTOR(S): Hegar, Gert; Angliker, Hans Joerg; Peter, Richard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
SOURCE: Patentschrift (Switz.), 20 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German

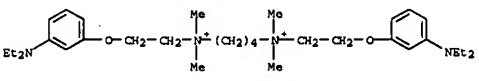


● Br⁻

L10 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1974:84687 CAPLUS
Correction of: 1973:160898
DOCUMENT NUMBER: 80:84687
Correction of: 78:160898
TITLE: Disazo dyes
INVENTOR(S): Hegar, Gert; Angliker, Hans Joerg; Peter, Richard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Fed. Rep. Ger.
SOURCE: Patentschrift (Switz.), 20 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 532117	A	19730215	CH 1968-4625	19680328
CH 532117	A	19721231	CH 1968-532117	19680328
ES 354414	A1	19700216	ES 1968-354414	19680528
PRIORITY APPLN. INFO.:			CH 1967-7532	19670529
			CH 1968-4625	19680328

AB Disazo dyes contg. 2 azo dye residues connected by a bridging group contg. 1 or 2 quaternary ammonium groups were prepd. by coupling diazotized aniline or amino heterocyclic derivs. with a coupler comprising 2 aniline residues linked by the quaternary bridging group. These products dyed polyacrylonitrile fast shades. For example, a mixt. of p-MeC6H4SO3CH2CH2NEtPh PhNEtCH2CH2NMe2 was heated for 3 hr at 90-100.deg. to give coupler I(R =H) [29313-52-8], which was coupled with diazotized 2,4-Cl(O2N)C6H3NH2 to give disazo dye I(R = 2,4-Cl(O2N)C6H3N:N) [27692-90-6], lightfast red on acrylic fibers. Correction of CA 79:20297n. In another typical example, red azo dye II [51123-20-7] was prepd.
IT 29452-74-2P 29452-77-5P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
RN 29452-74-2 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[3-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

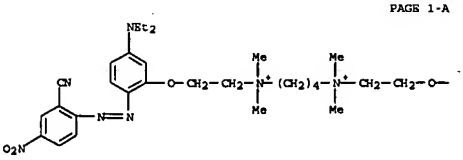
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 832117		19730215	CH 1968-4625	19680328

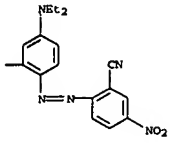
AB Disazo dyes (I) contg. 2 azo dye residues connected by a bridging group contg. 1 or 2 quaternary ammonium groups were prepd. from diazotized aniline or amino heterocyclic derivs. and a coupler contg. two aniline residues linked by groups contg. the quaternary groups; I were used to dye polyacrylonitrile fiber, fast shades. For example, a mixt. of Et(p-MeC6H4SO3CH2CH2)NPh and N-ethyl-N-[2-(dimethylamino)ethyl]aniline was heated for 3 hr at 90-100.deg. to give coupler II(R = H) [29313-52-8] which was coupled with diazotized 2,4-Cl(O2N)C6H3NH2 to give disazo dye II(R = 2,4-Cl(O2N)C6H3N:N) [27692-90-6], lightfast red on polyacrylonitrile. In another typical example azo dye (III) [39951-70-7] was prepd. red on polyacrylonitrile.
IT 29452-74-2P 41681-37-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
RN 29452-74-2 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[3-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)

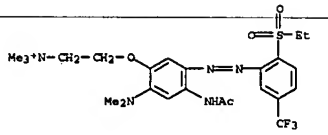
●2 Br⁻

RN 41681-37-2 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[2-[(2-cyano-4-nitrophenyl)azo]-5-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)

PAGE 1-A







L10 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1970:500014 CAPLUS
DOCUMENT NUMBER: 73:100014
TITLE: Azo dyes
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: Fr., 24 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1572029		19690620		
DE 1644220			DE	
GB 1193746			GB	
US 3642769		19720000	US	

PRIORITY APPLN. INFO.: DE 19670715

GI For diagram(s), see printed CA Issue.

AB Compds. of the general formula I dye polyacrylonitrile fibers scarlet to blue shades. Thus, 24.2 g 3,2,5-Br(H2N)(O2N)C6H2CN was diazotized and coupled with 38 g II (R1 = NMe2, R2 = Me) (III), m. 70-2.degree., to give I (W = Br, X = H, Y = NO2, Z = CN, R1 = NMe2, R2 = Me), reddish blue on polyacrylonitrile. Similarly 5 other I were prepd. Catalytic redn. of 2,4-(O2N)2C6H3OCH2CH2NMe2 (IV), m. 102-5.degree., followed by acetylation gave II (R1 = NMe2, R2 = H) (V). Similarly 7 other II (R2 = H) were prepd. Reductive methylation of V gave III. Similarly 7 other II (R2 = Me) were prepd. Alkylation of III led to I and II contg. quaternary ammonium groups.

IT 26863-58-1P 29157-19-5P 29157-20-8P
29157-21-9P 29157-22-0P 29157-23-1P
29249-40-9P 29249-41-0P 29318-24-9P
30053-46-4P 30053-47-5P 30053-49-7P
30053-50-0P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 26863-58-1 CAPLUS
CN Ammonium, [2-[4-acetamido-2-(dimethylamino)-5-[[6-(ethylsulfonyl)-.alpha.,.alpha.,.alpha.-trifluoro-m-tolyl]azo]phenoxy]ethyl]trimethyl-, tetrafluoroborate(1-) (8CI) (CA INDEX NAME)

CM 1

CRN 47793-60-2
CMF C24 H33 F3 N5 O4 S

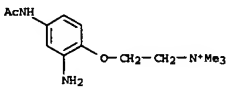
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 29157-19-5 CAPLUS
CN Ammonium, [2-(4-acetamido-2-aminophenoxy)ethyl]trimethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 46920-99-4
CMF C13 H22 N3 O2



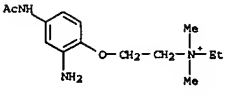
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 29157-20-8 CAPLUS
CN Ammonium, [2-(4-acetamido-2-aminophenoxy)ethyl]ethyldimethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 46998-12-3
CMF C14 H24 N3 O2



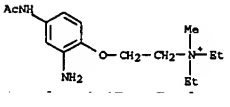
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 29157-21-9 CAPLUS
CN Ammonium, [2-(4-acetamido-2-aminophenoxy)ethyl]diethylmethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 47093-17-4
CMF C15 H26 N3 O2



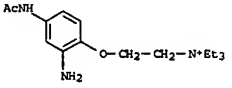
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 29157-22-0 CAPLUS
CN Ammonium, [2-(4-acetamido-2-aminophenoxy)ethyl]triethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 47116-38-1
CMF C16 H28 N3 O2



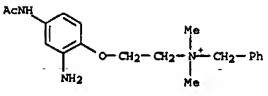
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 29157-23-1 CAPLUS
CN Ammonium, [2-(4-acetamido-2-aminophenoxy)ethyl]benzyldimethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 47371-48-2
CMF C19 H26 N3 O2



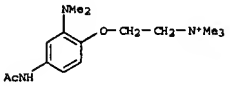
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 29249-40-9 CAPLUS
CN Ammonium, [2-[4-acetamido-2-(dimethylamino)phenoxy]ethyl]trimethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 47070-64-4
CMF C15 H26 N3 O2



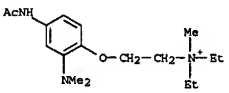
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 29249-41-0 CAPLUS
CN Ammonium, [2-[4-acetamido-2-(dimethylamino)phenoxy]ethyl]diethylmethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 47226-83-5
CMF C17 H30 N3 O2



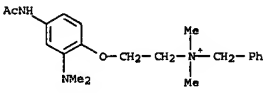
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 30053-47-5 CAPLUS
CN Ammonium, [2-[4-acetamido-2-(dimethylamino)phenoxy]ethyl]benzyldimethyl-, tetrafluoroborate(1-) (8CI) (CA INDEX NAME)

CM 1

CRN 47501-03-1
CMF C21 H30 N3 O2



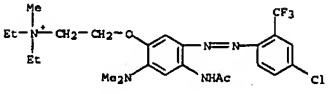
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 30053-49-7 CAPLUS
CN Ammonium, [2-[4-acetamido-5-[(4-chloro-.alpha.,.alpha.,.alpha.-trifluoro-o-tolyl)azo]-2-(dimethylamino)phenoxy]ethyl]diethylmethyl-, tetrafluoroborate(1-) (8CI) (CA INDEX NAME)

CM 1

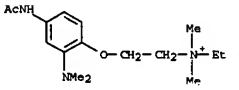
CRN 47766-77-8
CMF C24 H32 Cl F3 N5 O2



RN 29318-24-9 CAPLUS
CN Ammonium, [2-[4-acetamido-2-(dimethylamino)phenoxy]ethyl]ethyldimethyl-, tetrafluoroborate(1-), mono[tetrafluoroborate(1-)] (8CI) (CA INDEX NAME)

CM 1

CRN 47157-93-7
CMF C16 H28 N3 O2



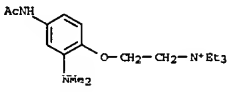
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 30053-46-4 CAPLUS
CN Ammonium, [2-[4-acetamido-2-(dimethylamino)phenoxy]ethyl]triethyl-, tetrafluoroborate(1-) (8CI) (CA INDEX NAME)

CM 1

CRN 47301-11-1
CMF C18 H32 N3 O2



CM 2

CRN 14874-70-5
CMF B F4

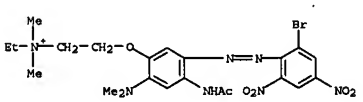
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

RN 30053-50-0 CAPLUS
CN Ammonium, [2-[4-acetamido-5-[(2-bromo-4,6-dinitrophenyl)azo]-2-(dimethylamino)phenoxy]ethyl]ethyldimethyl-, tetrafluoroborate(1-) (8CI) (CA INDEX NAME)

CM 1

CRN 47777-06-0
CMF C22 H29 Br N7 O6



CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

L10 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1969:482637 CAPLUS
DOCUMENT NUMBER: 71:82637
TITLE: Water-soluble azo dyes
INVENTOR(S): Gmaj, Jan; Scibiez, Halina; Wojciechowski, Lech
PATENT ASSIGNEE(S): Instytut Przemyslu Organicznego
SOURCE: Pol., 4 pp.
CODEN: POXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Polish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PL 55858 19681020 PL 19651105

GI For diagram(s), see printed CA Issue.

AB Compds. of the formula I were prepd. and used as orange to blue dyes for polyacrylonitrile fibers (II). Thus, a mixt. of 1.25 parts 4,2-Cl(H2N)C6H3OCH2CH2NEt2, 10 parts H2O, and 1.05 parts PhSO3Me was stirred for 1 hr., warmed to 95-100.degree., stirred for 2 hrs., cooled, coupled with the diazonium salt from 1 part 2-amino-6-ethoxybenzothiazole, and treated with 1 part 30% ZnCl2 to give I (R = 6-ethoxybenzothiazol-2-yl, X = Cl, R1 = H, R2 = Et, R3 = Me, Y = ZnCl3), red on II. Similarly other I were prepd. (RNH2, R1, R2, R3, X, Y, and shade on II given): 3-amino-1,2,4-triazole, H, - (NR22 = morpholino), Me, H, MeSO4, red; 2-aminobenzothiazole, Et, Et, Me, H, PhSO3, blue; 4-O2NC6-H4NH2, Me, Me, Me, Me, Cl, red; 2,5-H2N(O2N)C6H3CN, CH2CH2CN, Me, Me, H, Cl, red-violet. Also prepd. were violet 2,4-Cl(O2N)C6H4NH2 .fwdarw. 3-Me2NC6H4OCH2CH2NMe3+Cl- and orange 4,2-Cl(H2N)C6H3CN .fwdarw. 3-Et2NC6H4OCH2CH2NMe2.

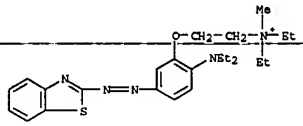
IT 23977-84-6P 23977-85-7P 23977-86-8P
25149-85-3P
RL: IMF (Industrial manufacture): PREP (Preparation)
(prepn. of)

RN 23977-84-6 CAPLUS

CN Ammonium, [2-[5-(2-benzothiazolylazo)-2-(diethylamino)phenoxy]ethyl]diethylmethyl-, benzenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 47687-52-5
CMF C24 H34 N5 O S



CM 2

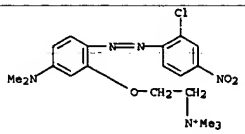
CRN 3198-32-1
CMF C6 H5 O3 S

RN 23977-85-7 CAPLUS

CN Ammonium, [2-[2-[(2-chloro-4-nitrophenyl)azo]-5-(dimethylamino)phenoxy]ethyl]trimethyl-, methyl sulfate (8CI) (CA INDEX NAME)

CM 1

CRN 47590-84-1
CMF C19 H25 Cl N5 O3



CM 2

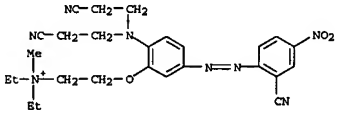
CRN 21228-90-0
CMF C H3 O4 S

RN 23977-86-8 CAPLUS

CN Ammonium, [2-[2-[bis(2-cyanoethyl)amino]-5-[(2-cyano-4-nitrophenyl)azo]phenoxy]ethyl]diethylmethyl-, methyl sulfate (8CI) (CA INDEX NAME)

CM 1

CRN 47793-26-0
CMF C26 H31 N8 O3



CM 2

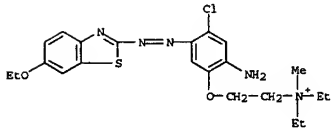
CRN 21228-90-0
CMF C H3 O4 S

RN 25149-85-3 CAPLUS

CN Ammonium, [2-[2-amino-4-chloro-5-[(6-ethoxy-2-benzothiazolyl)azo]phenoxy]ethyl]diethylmethyl-, benzenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 47688-84-6
CMF C22 H29 Cl N5 O2 S



CM 2

CRN 3198-32-1
CMF C6 H5 O3 S

L10 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1968:460038 CAPLUS
DOCUMENT NUMBER: 69:60038
TITLE: 1-Amino-2-(aminoalkoxy)-4-sulfonamidoanthraquinones and their quaternary salts
INVENTOR(S): Straley, James M.; Fisher, John G.; Giles, Ralph R.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3391164	A	19680702	US 1965-504986	19651024

PRIORITY APPLN. INFO.: US 1965-504986 19651024

GI For diagram(s), see printed CA Issue.

AB Compds. of the general formula I, and their quaternary salts dye acrylic textiles red. Thus, a mixt. of 2 g. 1-amino-4-methanesulfonylaminoanthraquinone-2-sulfonic acid, 5 g. KOH, and 30 ml. Me2NCH2CH2OH was stirred at 80-5.degree. for 1 hr., cooled, and dild. with 300 ml. H2O to ppt. I [Y = CH2CH2 (Q), R = Me] (II). II (0.5 g.) was heated in 10 ml. Me2SO4 at 90-5.degree. for 3 hrs. and the soln. poured into a large vol. of Et2O to ppt. II.Me2SO4. Similarly, other I and their Me2SO4 salts were prepd. (Y and R given): Q, 4-MeC6H4; Q, 4-EtC6H4; CH2CHOHCH2, Me; Q, Et. I (Y = Q, R = cyclohexyl) was quaternized with 4-MeC6H4SO3Et.

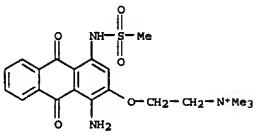
IT 20102-62-9P 20102-63-0P 20102-64-1P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 20102-62-9 CAPLUS

CN Ammonium, [2-[(1-amino-4-methanesulfonamido-2-anthraquinonyl)oxy]ethyl]trimethyl-, methyl sulfate (8CI) (CA INDEX NAME)

CM 1

CRN 47614-30-2
CMF C20 H24 N3 O5 S



CM 2

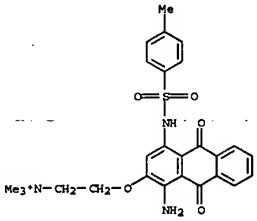
CRN 21228-90-0
CMF C H3 O4 S

RN 20102-63-0 CAPLUS

CN Ammonium, [2-[(1-amino-4-p-toluenesulfonamido-2-anthraquinonyl)oxy]ethyl]trimethyl-, methyl sulfate (8CI) (CA INDEX NAME)

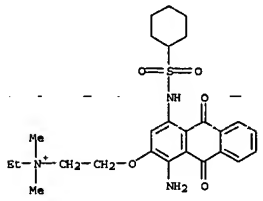
CM 1

CRN 47761-30-8
CMF C26 H28 N3 O5 S



CM 2

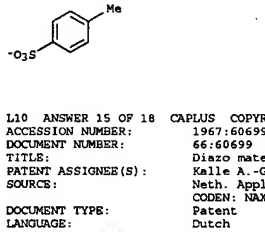
CRN 21228-90-0
CMF C H3 O4 S



RN 20102-64-1 CAPLUS
CN Ammonium, [2-[(1-amino-4-cyclohexanesulfonamido-2-anthraquinonyl)oxy]ethyl]ethyldimethyl-, p-toluenesulfonate (8CI) (CA INDEX NAME)

CM 1

CRN 47761-31-9
CMF C26 H34 N3 O5 S



CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

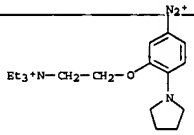
L10 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1967:60699 CAPLUS
DOCUMENT NUMBER: 66:60699
TITLE: Diazo material
PATENT ASSIGNEE(S): Kalle A.-G.
SOURCE: Neth. Appl., 9 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6605723		19661109		
DE 1289425			DE	
FR 90130			FR	
GB 1122249			GB	
US 3459551		19690000	US	

PRIORITY APPLN. INFO.: DE 19650508
GI For diagram(s), see printed CA Issue.
AB The title material is based upon compds. of the general formula I, where R1 is an alkyl (C.ltoreq.4) and R2 an alkyl (C.ltoreq.4) or an aralalkyl group (C.ltoreq.10) or in which R1 and R2 are linked to form a heterocyclic group with the N, n .gtoreq. 2, R3 and R4 are alkyl or hydroxyalkyl groups or they are linked into a heterocyclic group, R5 is an alkyl or an aralkyl group, X is H, halogen, alkyl, or an alkoxy group, and Y- and Z- are anions. Diazo materials of this type are very light sensitive and exhibit excellent stability. E.g., a conventional diazo paper was coated with colloidal SiO2 and poly(vinyl acetate) and then treated with a soln. of 3.5 parts by wt. citric acid, 3.5 H3BO3, 5.0 thiourea, 1.2 parts 3,5-dioxy-4-bromobenzamide, and 2.4 parts of the diazo compd. of triethyl-.beta.-(5-amino-2-pyrroli-dinophenoxyethyl)ammonium chloride as ZnCl2 double salt in 100 parts by vol. H2O. The paper was dried and exposed through a transparency. After NH3 development a red copy on white background resulted.
IT 15842-39-4
RL: USES (Uses)
(in diazo process)
RN 15842-39-4 CAPLUS
CN Benzenediazonium, 4-(1-pyrrolidinyl)-3-[2-(triethylammonio)ethoxy]-, tetrachlorozincate(2-) (1:1) (8CI) (CA INDEX NAME)

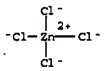
CM 1

CRN 47290-89-1
CMF C18 H30 N4 O



CM 2

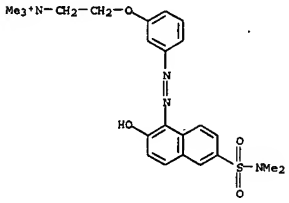
CRN 15201-05-5
CMF Cl4 Zn
CCI CCS



L10 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1966:105009 CAPLUS
DOCUMENT NUMBER: 64:105009
ORIGINAL REFERENCE NO.: 64:19842h,19843a-b
TITLE: Cationic azo dyes
INVENTOR(S): Yamatani, Wataru; Inoue, Shozo
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd.
SOURCE: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

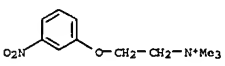
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 41002181		19660215	JP	19630806

GI For diagram(s), see printed CA Issue.
AB Manuf. of I, which dye acrylonitrile fibers red to orange shades, was described. Thus, 10 parts 3-[2,4-Me(H2N)C6H3N:N]C6H4NMe3+X- is diazotized and coupled with 11.2 parts 2,6-HOC10H6SO2N(CH2CH2OH)2 to give I (R1 = R2 = CH2CH2OH, R3 = Me), .lambda.max. 503 m.mu., red on polyacrytonitrile. Similarly are prepd. the following red I (R1, R2, R3, and .lambda.max. in m.mu. given): H, H, Me, 508; H, (CH2)2OH, Me, 504; H, Me, Me, 504; Me, CH2(CHOH)4CH2OH, Me, 510; Me, Me, Me, 504; H, (CH2)2OH, H, 538. Also prepd. are 3-H2NC6H4OCH2CH2NMe3+Br- .fwdarw. 2,6-HOC10H6SO2NMe2 and 4-H2NC6H4N(Et)CH2CH2NMe3+Cl- .fwdarw. 2,6-HOC10H6SO2NHCH2CH2OH which dye polyacrylonitrile fiber yellowish orange and dark red, resp.
IT 5815-87-2, Ammonium, [2-[m-[[6-(dimethylsulfamoyl)-2-hydroxy-1-naphthyl]azo]phenoxy]ethyl]trimethyl, bromide
(spectrum of)
RN 5815-87-2 CAPLUS
CN Ammonium, [2-[m-[[6-(dimethylsulfamoyl)-2-hydroxy-1-naphthyl]azo]phenoxy]ethyl]trimethyl-, bromide (8CI) (CA INDEX NAME)



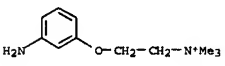
● Br⁻

L10 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1965:93814 CAPLUS
DOCUMENT NUMBER: 62:93814
ORIGINAL REFERENCE NO.: 62:16831b-c
TITLE: Nicotine-like stimulant actions of several substituted phenylcholine ethers
AUTHOR(S): Coleman, M. E.; Hume, A. H.; Holland, W. C.
CORPORATE SOURCE: Univ. of Mississippi, Jackson
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1965), 148(1), 66-70
CODEN: JPETAB; ISSN: 0022-3565
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In order of decreasing activity, 3-iodo-, 3-amino-, 3-bromo-, 3-chloro-, 3-fluoro-, and 3-nitrophenylcholine ether, and phenylcholine ether produced a vasopressor response in the atropinized dog, the spinal cat, and the cat superior cervical ganglia-nictitating membrane prepn.
IT 369-38-0, Ammonium, trimethyl[2-(m-nitrophenoxy)ethyl], bromide
370-43-4, Ammonium, [2-(m-aminophenoxy)ethyl]trimethyl, bromide
(prepn. and nicotine-like action of)
RN 369-38-0 CAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-(3-nitrophenoxy)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

RN 370-43-4 CAPLUS
CN Ethanaminium, 2-(3-aminophenoxy)-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



● Br⁻

L10 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1965:83157 CAPLUS
DOCUMENT NUMBER: 62:83157
ORIGINAL REFERENCE NO.: 62:14862f-h,14863a-g
TITLE: Cationic azo compounds
INVENTOR(S): Neracher, Otto E.; Cantor, Abraham; Schmidt, William
PATENT ASSIGNEE(S): West Laboratories, Inc.
SOURCE: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

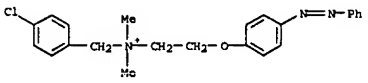
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3170909		19650223	US	19620622

GI For diagram(s), see printed CA Issue.
AB Amines of the general formula I (Q = secondaryamine moiety) are quaternized to give compds. useful as drugs and as dyes for cellulosics, synthetic fibers, and plastics. I are prepd. by treating a secondary amine with an epoxy compd. derived from epichlorohydrin (II) and a 4-arylazophenol. The amine is then quaternized. Thus, 253 g. 4-HOC6H4N:NPh and 235 g. II are heated to 90.degree. while 151 g. 33% NaOH is added dropwise. After 2 hrs. at 90.degree., the mixt. is cooled to

give 4-(2,3-epoxypropoxy)azobenzene (III), reddish brown, m. 84.degree. (Me2CO), 91% epoxide content. A mixt. of 26 g. III and 8.5 g. piperidine is heated at 120.degree. for 16 hrs., cooled, taken up in 200 ml. CHCl3 and filtered. After washing with H2O, the CHCl3 is distd. to give I (X = Y = Z = H, Q = 1-piperidyl) (IV), brown, m. 113.degree. H2SO4 salt, yellow, m. 248.degree.. Heating 3.4 g. IV and 1.4 g. PhCH2Cl (V) at 100.degree. for 16 hrs. gives, after dispersion into 300 ml. EtOAc and filtration, the yellow quaternary salt, m. 191.degree.. Other derivs. of IV prepd. are (quaternizing agent, color, and m.p. given): p-ClC6H4CH2Cl (VI), yellow, 186.degree.; BzCH2Cl (VII), dark brown, 138.degree.; MeI, dark brown, 165.degree.; EtBr, tan, 126.degree.; n-C12H25Br (VIII), light brown, 143.degree.. Also prepd. are I given in the first table (m.p. and color of each indicated quaternary deriv. is given in the patent). Also prepd. are the derivs. of X given in the second table. X, Y, Z, Q, m.p., quarternizing agent; H, H, H, Me2N, 95.degree., HCl, V-VII, 3,4-Cl2C6H3CH2Cl (IX); H, H, H, Et2N, 60.degree., HOAc, EtBr, MeI, V-IX; H, H, H, N(CH2CH2OH)2, 82.degree., VI-IX, EtBr; H, H, H, morpholino, 103.degree., V-VIII, MeI, EtBr, Me2SO4; H, Cl, H, Me2N, 95.degree., HCl, V, VI; H, Cl, H, Et2N, 67.degree., HCl, VI-IX, MeI, EtBr, Me2SO4; H, Cl, H, N(CH2CH2OH)2, 101.degree., V-IX, MeI, EtBr, Me2SO4; H, Cl, H, morpholino, 125.degree., H2SO4, V-VIII, MeI, EtBr; H, Cl, H, piperidino, 135.degree., H3PO4, V-VIII, EtBr; H, Me, H, Et2N, 67.degree., H2SO4, V-VIII, MeI, EtBr, Me2SO4; H, Me, H, morpholino, 114.degree., V-VIII, MeI, EtBr, Me2SO4; H, Me, H, piperidino, 122.degree., H3PO4, V-VIII, MeI, EtBr, Me2SO4; H, MeO, H, Et2N, 90.degree., V-VII, EtBr, MeI; H, MeO, H, N(CH2CH2OH)2, 120.degree., HCl, V-VIII, MeI, EtBr; H, MeO, H, morpholino, 104.degree., HOAc, V-VIII, MeI, EtBr; H, MeO, H, piperidino, 118.degree., V-VIII, MeI; Cl, H, Cl, Et2N, --, HCl, V-IX; Cl, H, Cl, N(CH2CH2OH)2, --, V-VIII, MeI, EtBr; Cl, H, Cl, morpholino, --, HOAc, V-VIII, MeI, EtBr; Cl, H, Cl, piperidino, --, V-VIII, MeI; H, Cl, Cl, Et2N, 92.degree., HCl, V-IX; H, Cl, Cl, N(CH2CH2OH)2, 94.degree., V, VI; H, Cl, Cl, morpholino, 108.degree., HCl, V-VII, IX; H, Cl, Cl, piperidino, 116.degree., V-VIII; X (Q = morpholino) was dark yellow and m. 113.degree., and X (Q = piperidino) was brown and m. 127.degree.. R2 = R4 = H, R3 = Me). quaternizing salt Q, agent, color, m.p.; morpholino, V, light brown, 165.degree.; morpholino, VI, light brown, 159.degree.; morpholino, VII, light brown, 130.degree.; morpholino, VIII, yellow, 161.degree.; piperidino, V, brown, 115.degree.; piperidino, VI, brown, 124.degree.; piperidino, VII, brown, 125.degree.; piperidino, VIII, tan, 180.degree.; U.S. 3,170,910; 3 pp. Amines of the general formula I are prepd. and quaternized with a variety of agents to give cationic azo compds. of similar utility to those cited in the preceding patent. I are prepd. by treating a 4-arylazophenol with NaH in PhMe, followed by reaction of the Na salt with Me2NCH2CH2Cl (II). The product is quaternized in PhMe. Thus, 71.3 g. 4-HOC6H4N:NPh in 750 ml. PhMe is added to a suspension of 17.3 g. 50% NaH in 300 ml. PhMe, the mixt. refluxed 2 hrs. and then treated dropwise with 43 g. II in 100 ml. PhMe. After 16 hrs. refluxing the mixt. is filtered and the PhMe distd. at .ltoreq.150.degree. in vacuo to give I (X = Y = H) (III), brown, m. 50.degree.; HCl salt, yellow, m. 188.degree.. Refluxing 5.5 g. III and 2.8 g. PhCH2Cl (IV) in 75 ml. PhMe for 16 hrs. ppts. the quaternary deriv., yellow, m. 185.degree.. Other derivs. of III prepd. are (quaternizing agent and m.p. given): 4-ClC6H4CH2Cl (V), 176.degree.; 4-MeOC6H4CH2Cl, 189.degree.; BuBr, 231.degree.; Me2SO4, 171.degree.. Also prepd. are the brown I given in the table. Quaternary Salt X, Y, m.p., quarternizing agent, color , m.p.; Cl, H, 74.degree., HCl, light brown, 217.degree.; Cl, H, --, IV, yellow-tan, 204-6.degree.; Cl, H, --, V, yellow-tan, 213-14.degree.; Cl, OH, 96.degree., V, orange, 194.degree.; Cl, OMe, 77.degree., V, yellow, 205.degree.;

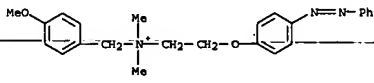
IT 3157-80-0, Ammonium, (p-chlorobenzyl)dimethyl[2-[p-(phenylazo)phenoxy]ethyl], chloride 3157-81-1, Ammonium, (p-methoxybenzyl)dimethyl[2-[p-(phenylazo)-phenoxy]ethyl], chloride 3157-82-2, Ammonium, butyldimethyl[2-[p-(phenylazo)phenoxy]ethyl], bromide 3157-84-4, Ammonium, benzyl[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl, chloride 3157-85-5, Ammonium, benzyldimethyl[2-[p-(phenylazo)phenoxy]-ethyl], chloride 3157-86-6, Ammonium, (p-chlorobenzyl)[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl, chloride 3157-88-8, Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-hydroxyphenoxy]ethyl]dimethyl, chloride 3157-90-2, Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-methoxyphenoxy]ethyl]dimethyl, chloride
(prepn. of)

RN 3157-80-0 CAPLUS
CN Ammonium, (p-chlorobenzyl)dimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, chloride (8CI) (CA INDEX NAME)



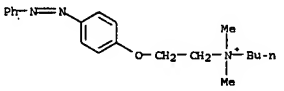
● Cl⁻

RN 3157-81-1 CAPLUS
CN Ammonium, (p-methoxybenzyl)dimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, chloride (8CI) (CA INDEX NAME)



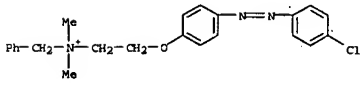
● Cl⁻

RN 3157-82-2 CAPLUS
CN Ammonium, butyldimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, bromide (8CI) (CA INDEX NAME)



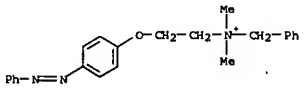
● Br⁻

RN 3157-84-4 CAPLUS
CN Ammonium, benzyl[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



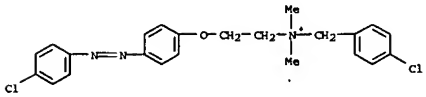
● Cl⁻

RN 3157-85-5 CAPLUS
CN Ammonium, benzyldimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, chloride (8CI) (CA INDEX NAME)



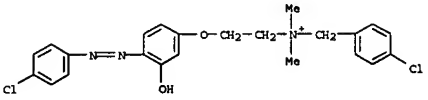
● Cl⁻

RN 3157-86-6 CAPLUS
CN Ammonium, (p-chlorobenzyl)[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



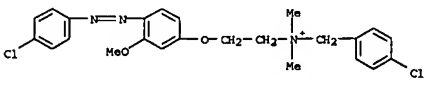
● Cl⁻

RN 3157-88-8 CAPLUS
CN Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-hydroxyphenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



● Cl⁻

RN 3157-90-2 CAPLUS
CN Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-methoxyphenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



● Cl⁻

=> s l8 and dimethylamino
65948 DIMETHYLAMINO
1 DIMETHYLAMINOS
65949 DIMETHYLAMINO
(DIMETHYLAMINO OR DIMETHYLAMINOS)
L11 8 L8 AND DIMETHYLAMINO

=> d 1-8 ibib abs hitstr

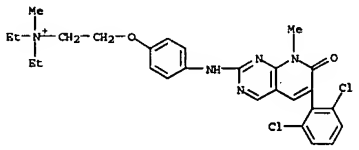
L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:496546 CAPLUS
DOCUMENT NUMBER: 129:211390
TITLE: 2-Substituted Aminopyrido[2,3-d]pyrimidin-7(8H)-ones. Structure-Activity Relationships Against Selected Tyrosine Kinases and in Vitro and in Vivo Anticancer Activity
AUTHOR(S): Klutchko, Sylvester R.; Hamby, James M.; Boschelli, Diane H.; Wu, Zhipei; Kraker, Alan J.; Amar, Aneesa M.; Hartl, Brian G.; Shen, Cynthia; Klohs, Wayne D.; Steinkampf, Randall W.; Driscoll, Denise L.; Nelson, James M.; Elliott, William L.; Roberts, Billy J.; Stoner, Chad L.; Vincent, Patrick W.; Dykes, Donald J.; Panek, Robert L.; Lu, Gina H.; Major, Terry C.; Dahring, Tawny K.; Hallak, Hussein; Bradford, Laura A.; Showalter, H. D. Hollis; Doherty, Annette M.
CORPORATE SOURCE: Departments of Chemistry Cancer Research Vascular and Cardiac Diseases and Pharmacokinetics and Drug Metabolism Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, Ann Arbor, MI, 48105, USA
SOURCE: Journal of Medicinal Chemistry (1998), 41(17),

3276-3292
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB While engaged in therapeutic intervention against a no. of proliferative diseases, we have discovered the 2-aminopyrido[2,3-d]pyrimidin-7(8H)-ones as a novel class of potent, broadly active tyrosine kinase (TK) inhibitors. An efficient route was developed that enabled the synthesis of a wide variety of analogs with substitution on several positions of the template. Compds. of this series were competitive with ATP and displayed submicromolar to low nanomolar potency against a panel of TKs, including receptor (platelet-derived growth factor, PDGFr; fibroblast growth factor, FGFr; epidermal growth factor, EGFr) and nonreceptor (c-Src) classes. One of the more thoroughly evaluated members was 63 with IC50 values of 0.079 .mu.M (PDGFr), 0.043 .mu.M (bFGFr), 0.044 .mu.M (EGFr), and 0.009 .mu.M (c-Src). In cellular studies, 63 inhibited PDGF-mediated receptor autophosphorylation in a no. of cell lines at IC50 values of 0.026-0.002 .mu.M and proliferation of two PDGF-dependant lines at 0.3 .mu.M. It also caused inhibition of soft agar colony formation in three cell lines that overexpress the c-Src TK, with IC50 values of 0.33-1.8 .mu.M. In in vivo studies against a panel of seven xenograft tumor models with known and/or inferred dependence on the EGFr, PDGFr, and c-Src TKs, compd. 63 produced a tumor growth delay of 10.6 days against the relatively refractory SK-OV-3 ovarian xenograft and also displayed activity against the HT-29 tumor. In rat oral bioavailability studies, compd. 63 plasma concns. declined in a biexponential manner, and systemic plasma clearance was high relative to liver blood flow. Finally, in rat metab. studies, HPLC chromatog. identified two metabolites of 63. Because of the excellent potency of 63 against selected TKs, in vitro and in vivo studies are underway for this compd. in addnl. tumor models dependent upon PDGFr, FGFr, and c-Src to assess its potential for advancement to clin. trials.

IT 212391-65-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of aminopyridopyrimidinones as tyrosine kinase inhibitors and anticancer agents)

RN 212391-65-6 CAPLUS
CN Ethanaminium, 2-[4-[[6-(2,6-dichlorophenyl)-7,8-dihydro-8-methyl-7-oxopyrido[2,3-d]pyrimidin-2-yl]amino]phenoxy]-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)



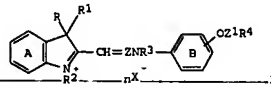
● I⁻

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1981:499323 CAPLUS
DOCUMENT NUMBER: 95:99323
TITLE: Quaternary and basic azamethine dyes
INVENTOR(S): Mohr, Reinhard; Haehnke, Manfred
PATENT ASSIGNEE(S): Hoechst A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 42 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2945028	A1	19810521	DE 1979-2945028	19791108
EP 29136	A2	19810527	EP 1980-106565	19801025
EP 29136	A3	19811202		
EP 29136	B1	19831109		
R: BE, CH, DE, FR, GB, IT				
US 4344879	A	19820817	US 1980-204323	19801105
JP 56076457	A2	19810624	JP 1980-156028	19801107
JP 01024825	B4	19890515		

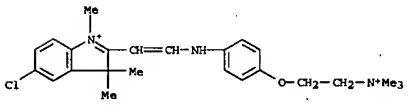
PRIORITY APPLN. INFO.: DE 1979-2945028 19791108
GI



AB Azamethine dyes (I; R, R1 = C1-4 alkyl; R2 = optionally substituted C1-4 alkyl; Z = CH, N; R3 = H, optionally substituted C1-4 alkyl; Z1 = C2-6 straight or branched alkylene; R4 = dialkylamino or salt, trialkylammonio, heterocyclic group linked through N; X- = colorless anion; n = 1,2; rings A and B may be substituted) are prepd. and used to dye acrylic and acid-modified polyester fibers fast yellow shades. Thus, 2-(2-aminophenoxy)-1-(dimethylamino)ethane [1202-00-2] was diazotized, coupled with 1,3,3-trimethyl-2-methyleneindoline [118-12-7] to give the free base [78568-94-2] (itself a yellow dye for acrylic fibers), and treated with Me2SO4 and then NaBF4 to give I(R = R1 = R2 = R3 = Me, Z = N, Z1 = CH2CH2, R4 = N+Me3 ortho substituted on ring B, X = BF4, n = 2) [78568-96-4].

IT 78568-93-1
RL: USES (Uses)
(dye, for acrylic fibers)

RN 78568-93-1 CAPLUS
CN 3H-Indolium, 5-chloro-1,3,3-trimethyl-2-[2-[[4-[2-(trimethylammonio)ethoxy]phenyl]amino]ethenyl]-, dichloride (9CI) (CA INDEX NAME)



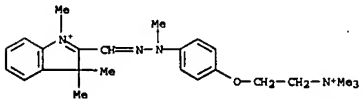
●2 Cl⁻

IT 78568-85-1 78568-96-4
RL: USES (Uses)
(dye, for acrylic fibers, prepn. of)

RN 78568-85-1 CAPLUS
CN 3H-Indolium, 1,3,3-trimethyl-2-[[methyl[4-[2-(trimethylammonio)ethoxy]phenyl]hydrazono]methyl]-, (T-4)-tetrachlorozincate(2-) (1:1) (9CI) (CA INDEX NAME)

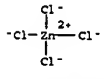
CM 1

CRN 78568-84-0
CMF C24 H34 N4 O



CM 2

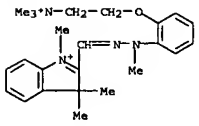
CRN 15201-05-5
CMF Cl4 Zn
CCI CCS



RN 78568-96-4 CAPLUS
CN 3H-Indolium, 1,3,3-trimethyl-2-[[methyl[2-[2-(trimethylammonio)ethoxy]phenyl]hydrazono]methyl]-, bis[tetrafluoroborate(1-)] (9CI) (CA INDEX NAME)

CM 1

CRN 78568-95-3
CMF C24 H34 N4 O



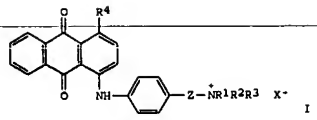
CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

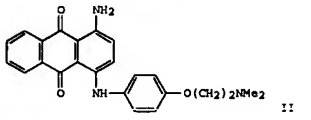
L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1977:553416 CAPLUS
DOCUMENT NUMBER: 87:153416
TITLE: Improvements in and relating to water-soluble anthraquinone dyes
INVENTOR(S): Dawson, John Frederick; Jackson, Malcolm Stewart
PATENT ASSIGNEE(S): Yorkshire Chemicals Ltd., UK
SOURCE: Brit., 10 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1454286	A	19761103	GB 1973-47001	19741001

PRIORITY APPLN. INFO.: GB 1973-47001 19741001
GI



I



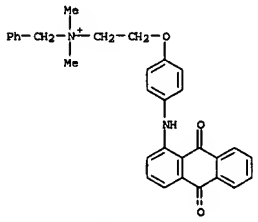
II

AB Basic anthraquinone dyes I (Z = alkylene optionally contg. a hetero atom, group contg. a hetero atom; R1, R2 = alkyl; R3 = aralkyl; R4 = H, OH, amino; X- = Cl, Br, p-MeC6H4SO3) dye acrylic fibers with improved fastness and have Compatibility Values (J. Soc. Dyers and Colorists, 1972, 88, 220; lower than those of unquaternized I or I (R3 = alkyl). Thus, anthraquinone dye (II) [62346-40-1] prepd. in 1 step from 4-(2'-dimethylaminoethoxy)aniline [62345-76-0] and 1-amino-4-bromoanthraquinone-2-sulfonic acid Na salt [6258-06-6] was quaternized with PhCH2Cl to give I (Z = O(CH2)2, R1 = R2 = Me, R3 = PhCH2, R4 = NH2, and X = Cl) (III), which dyed polyacrylonitrile yarn a fast blue shade. Compatibility Values of III, II, and Me2SO-quaternized II were 1.0, 3.0, and 3.0, resp. Six other anthraquinone dyes I and their Compatibility Values were also given.

IT 62345-74-8P 62346-41-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of, for dyeing acrylic fibers)

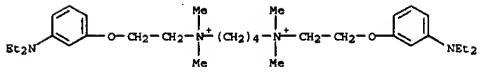
RN 62345-74-8 CAPLUS

CN Benzenemethanaminium, N-[2-[4-[(9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]phenoxy]ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 62346-41-2 CAPLUS

CN Benzenemethanaminium, N-[2-[4-[(4-amino-9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]phenoxy]ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

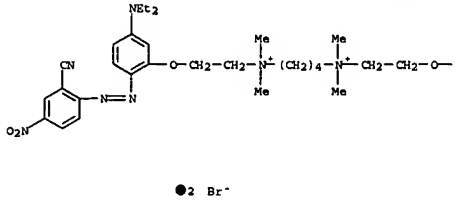


●2 Br⁻

RN 29452-77-5 CAPLUS

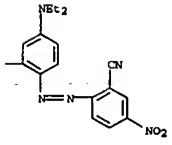
CN 1,4-Butanediaminium, N,N'-bis[2-[2-[(2-cyano-4-nitrophenyl)azo]-5-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)

PAGE 1-A



●2 Br⁻

PAGE 1-B



L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1973:516365 CAPLUS

DOCUMENT NUMBER: 79:116365

TITLE: Water-soluble styryl dyes

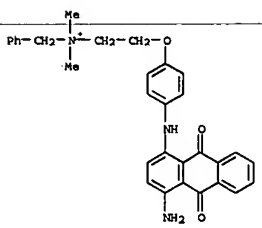
INVENTOR(S): Gmaj, Jan

PATENT ASSIGNEE(S): Instytut Przemyslu Organicznego

SOURCE: Pol., 4 pp.
CODEN: POXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Polish



L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1974:84687 CAPLUS
Correction of: 1973:160898

DOCUMENT NUMBER: 80:84687
Correction of: 78:160898

TITLE: Disazo dyes

INVENTOR(S): Hegar, Gert; Angliker, Hans Joerg; Peter, Richard

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Fed. Rep. Ger.

SOURCE: Patentschrift (Switz.), 20 pp.
CODEN: SWXXAS

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 532117	A	19730215	CH 1968-4625	19680328
CH 532117	A	19721231	CH 1968-532117	19680328
ES 354414	A1	19700216	ES 1968-354414	19680528
PRIORITY APPLN. INFO.:			CH 1967-7532	19670529
			CH 1968-4625	19680328

AB Disazo dyes contg. 2 azo dye residues connected by a bridging group contg. 1 or 2 quaternary ammonium groups were prepd. by coupling diazotized aniline or amino heterocyclic derivs. with a coupler comprising 2 aniline residues linked by the quaternary bridging group. These products dyed polyacrylonitrile fast shades. For example, a mixt. of p-MeC6H4SO3CH2CH2NEtPh PhNEtCH2CH2NMe2 was heated for 3 hr at 90-100.deg. to give coupler I(R =H) [29313-52-8], which was coupled with diazotized 2,4-Cl(O2N)C6H3NH2 to give disazo dye I(R = 2,4-Cl(O2N)C6H3N:N) [27692-90-6], lightfast red on acrylic fibers. Correction of CA 79:20297n. In another typical example, red azo dye II [51123-20-7] was prepd.

IT 29452-74-2P 29452-77-5P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 29452-74-2 CAPLUS

CN 1,4-Butanediaminium, N,N'-bis[2-[3-[diethylamino]phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 66159		19720731	PL	19690211

AB Styryl dyes (I, R = CN, CONH2, R2 = Et, Me; Q = S, O; X = Cl, MeSO4, Cl . xZnCl2) were prepd. and were used to dye polyacrylonitrile fiber light-, sublimation-, and washfast yellow shades. Thus, m-Et2NC6H4OCH2CH2NEt2 was treated with POCl3 in DMF to give 2-[2-(diethylamino)ethoxy]-4-(diethylamino)benzaldehyde [42540-28-3] which was heated with CH2(CN)2, and treated with p-MeC6H4SO3Me to give styryl dye I(R = CN, R1 = Et, Q = O, X = Cl.xZnCl2, 2-substituted).

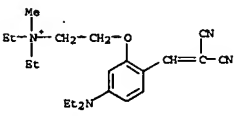
IT 50328-51-3P 50329-21-0P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 50328-51-3 CAPLUS

CN Ethanaminium, 2-[2-(2,2-dicyanoethenyl)-5-(diethylamino)phenoxy]-N,N-diethyl-N-methyl-, chloride, compd. with zinc chloride (ZnCl2) (9CI) (CA INDEX NAME)

CM 1

CRN 50582-76-8
CMF C21 H31 N4 O . Cl



● Cl⁻

CM 2

CRN 7646-85-7
CMF Cl2 Zn

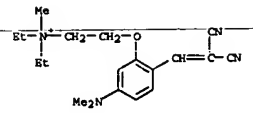
Cl—Zn—Cl

RN 50329-21-0 CAPLUS

CN Ethanaminium, 2-[2-(2,2-dicyanoethenyl)-5-(dimethylamino)phenoxy]-N,N-diethyl-N-methyl-, chloride, compd. with zinc chloride (ZnCl2) (9CI) (CA INDEX NAME)

CM 1

CRN 50582-79-1
CMF C19 H27 N4 O . Cl



● Cl⁻

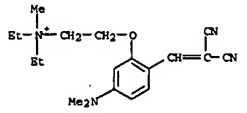
CM 2

CRN 7646-85-7
CMF Cl2 Zn

IT 50329-20-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with malonodinitrile)
RN 50329-20-9 CAPLUS
CN Ethanaminium, 2-[2-(2,2-dicyanoethenyl)-5-(dimethylamino)phenoxy]-N,N-diethyl-N-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 50581-84-5
CMF C19 H27 N4 O



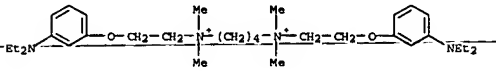
CM 2

CRN 21228-90-0
CMF C H3 O4 S

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1973:160898 CAPLUS
DOCUMENT NUMBER: 78:160898
TITLE: Disazo dyes
INVENTOR(S): Hegar, Gert; Angliker, Hans Joerg; Peter, Richard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
SOURCE: Patentschrift (Switz.), 20 pp.
CODEN: SWXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 832117		19730215	CH 1968-4625	19680328

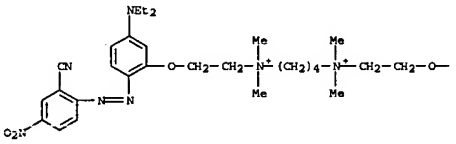
AB Disazo dyes (I) contg. 2 azo dye residues connected by a bridging group contg. 1 or 2 quaternary ammonium groups were prepd. from diazotized aniline or amino heterocyclic derivs. and a coupler contg. two aniline residues linked by groups contg. the quaternary groups; I were used to dye polyacrylonitrile fiber, fast shades. For example, a mixt. of Et(p-MeC6H4SO3CH2CH2)NPh and N-ethyl-N-[2-(dimethylamino)ethyl]aniline was heated for 3 hr at 90-100.deg. to give coupler II(R = H) [29313-52-8] which was coupled with diazotized 2,4-Cl(O2N)C6H3NH2 to give disazo dye I(R = 2,4-Cl(O2N)C6H3N:N) [27692-90-6], lightfast red on polyacrylonitrile. In another typical example azo dye (III) [39951-70-7] was prepd. red on polyacrylonitrile.
IT 29452-74-2P 41681-37-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)
RN 29452-74-2 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[3-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl-, dibromide (9CI) (CA INDEX NAME)



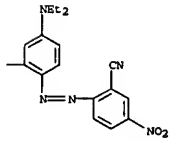
●2 Br⁻

RN 41681-37-2 CAPLUS
CN 1,4-Butanediaminium, N,N'-bis[2-[2-[(2-cyano-4-nitrophenyl)azo]-5-(diethylamino)phenoxy]ethyl]-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)

PAGE 1-A



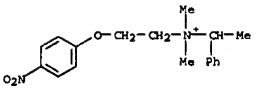
PAGE 1-B



L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1965:416705 CAPLUS
DOCUMENT NUMBER: 63:16705
ORIGINAL REFERENCE NO.: 63:2927h,2928a-d
TITLE: Quaternary ammonium compounds
INVENTOR(S): Copp, Frederick C.; Coker, Geoffrey G.
PATENT ASSIGNEE(S): Wellcome Foundation Ltd.
SOURCE: 8 pp.; Addn. to Brit. 924,961 (CA 59, 9883b)
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 982572		19650210	GB	19600610

GI For diagram(s), see printed CA Issue.
AB Quaternary ammonium compds., useful for oral administration and effective in decreasing infestations of nematodes, were prepd. Thus, 24.6 g. 1-bromo-2-(p-nitrophenoxy)ethane was added to 34.1 g. 2-(p-chlorophenyl)ethylamine in 30 ml. boiling C6H6, the mixt. cooled after 2 hrs., and dild. with 70 ml. C6H6. The solid was filtered off, washed with C6H6, the filtrate and washings were combined and shaken with 2N HCl. The oil sepd. was recrystd., from 2-propanol and Et2O, and from a large amt. of H2O to give 1-(p-chlorophenethylamino)-2-(p-nitrophenoxy)ethane-HCl hydrate (I), m. 93-4.degree., with subsequent solidification and remelting at 162-3.degree.. From I was prepd. N-[2-(p-chlorophenethyl)] - N,N-dimethyl - N - [2 - (p - nitrophenoxy)ethyl]-ammonium iodide (II), m. 168-9.degree.. Also prepd. were the following analogs of I (alkylation reagent to form the quaternary ammonium deriv., and the m.p. of the latter are given in parenthesis); 1-(.alpha.- methylbenzylamino)-3-(p-nitrophenoxy)propane-HCl, m. 162-3.degree. (MeI, 133-4.degree.), 1-(.alpha.-methylbenzylamino)-2-(p-nitrophenoxy)ethane-HCl, m. 156.degree. (MeI, 139-40.degree.), 1-(p-chloro-.alpha.-methylbenzylamino)-3-(p-nitrophenoxy)propane- HCl, (MeI, 168-9.degree.); 1-(p-chlorophenethylamino)-3-(p-nitrophenoxy)propane-HCl, m. 125-6.degree. (1,4-dibromobutane, 188-9.degree.); 1-bromo-3-(3-methyl-4-nitrophenoxy)propane, m. 39.degree.; 1-(3-methyl-4-nitrophenoxy)-3-(pyrrolidin-1-yl)propane, b0.001 140-54.degree., (benzyl iodide, 136-37.degree.); product of 1-bromo-3-(3-methyl-4-nitrophenoxy)propane and Me2N, b0.005 129-30.degree. (4-bromobenzyl bromide, 190-1.degree.); 1-bromo-2-(2-methoxy-4-nitrophenoxy)ethane, m. 85-6.degree.; 1-dimethylamino-2-(2-methoxy-4-nitrophenoxy)ethane, m. 65-6.degree. (benzyl bromide, 199-200.degree.); 1-(2-methoxy-4-nitrophenoxy)-2-(pyrrolidin-1-yl)ethane, m. 86-7.degree. (benzyl bromide, 194-5.degree.); 1-bromo-3-(2-methoxy-4-nitrophenoxy)propane, m. 77-8.degree.; 1-(2-methoxy-4-nitrophenoxy)-3-(pyrrolidin-1-yl)propane, m. 60-1.degree. (benzyl bromide, 150-1.degree.). A, E, n, XY, Z, m.p.; H, 3,4-Cl2, 3, (CH2)4, I, 157-8.degree.; 3-Me, 4-Cl, 3, Me2, I, 166-7.degree.; 3-Me, 2-Cl, 3, Me2, I, 135-6.degree.; 3-Me, 4-Cl, 3, (CH2)4, I, 165-6.degree.; 2-MeO, 4-Cl, 2, (CH2)4, Cl, 145-6.degree.; 2-MeO, 2-Cl, 3, (CH2)4, I, 143-4.degree.; 2-MeO, 4-Cl 3, (CH2)4, Cl, 113-14.degree. (dihydrate); 2-MeO, 4-Cl, 3, (CH2)4, I, 172-3.degree. Also prepd. was N-(2,4-dichlorobenzyl)-N-[3-(4-nitrophenoxy)propyl]pyrrolidinium iodide, m. 196-7.degree.. Also the III listed in the table were prepd.
IT 2506-38-9, Ammonium, dimethyl(.alpha.-methylbenzyl)[2-(p-nitrophenoxy)ethyl], iodide
(prepn. of)
RN 2506-38-9 CAPLUS
CN Ammonium, dimethyl(.alpha.-methylbenzyl)[2-(p-nitrophenoxy)ethyl]-, iodide (8CI) (CA INDEX NAME)



● I⁻

L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1965:83157 CAPLUS
DOCUMENT NUMBER: 62:83157
ORIGINAL REFERENCE NO.: 62:14862f-h,14863a-g
TITLE: Cationic azo compounds
INVENTOR(S): Neracher, Otto E.; Cantor, Abraham; Schmidt, William
PATENT ASSIGNEE(S): West Laboratories, Inc.
SOURCE: 5 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

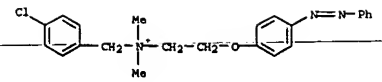
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3170909		19650223	US	19620622

GI For diagram(s), see printed CA Issue.
AB Amines of the general formula I (Q = secondaryamine moiety) are quaternized to give compds. useful as drugs and as dyes for cellulosics, synthetic fibers, and plastics. I are prepd. by treating a secondary amine with an epoxy compd. derived from epichlorohydrin (II) and a 4-arylazophenol. The amine is then quaternized. Thus, 253 g. 4-HOC6H4N:NPh and 235 g. II are heated to 90.degree. while 151 g. 33% NaOH is added dropwise. After 2 hrs. at 90.degree., the mixt. is cooled to give 4-(2,3-epoxypropoxy)azobenzene (III), reddish brown, m. 84.degree. (Me2CO), 91% epoxide content. A mixt. of 26 g. III and 8.5 g. piperidine is heated at 120.degree. for 16 hrs., cooled, taken up in 200 ml. CHCl3 and filtered. After washing with H2O, the CHCl3 is distd. to give I (X = Y = Z = H, Q = 1-piperidyl) (IV), brown, m. 113.degree. H2SO4 salt, yellow, m. 248.degree.. Heating 3.4 g. IV and 1.4 g. PhCH2Cl (V) at 100.degree. for 16 hrs. gives, after dispersion into 300 ml. EtOAc and filtration, the yellow quaternary salt, m. 191.degree.. Other derivs. of IV prepd. are (quaternizing agent, color, and m.p. given): p-ClC6H4CH2Cl (VI), yellow, 186.degree.; BzCH2Cl (VII), dark brown, 138.degree.; MeI, dark brown, 165.degree.; EtBr, tan, 126.degree.; n-C12H25Br (VIII), light brown, 143.degree.. Also prepd. are I given in the first table (m.p. and color of each indicated quaternary deriv. is given in the patent). Also

prepd. are the derivs. of X given in the second table. X, Y, Z, Q, m.p., quarternizing agent; H, H, H, Me2N, 95.degree., HCl, V-VII, 3,4-Cl2C6H3CH2Cl (IX); H, H, H, Et2N, 60.degree., HOAc, EtBr, MeI, V-IX; H, H, H, N(CH2CH2OH)2, 82.degree., VI-IX, EtBr; H, H, H, morpholino, 103.degree., V-VIII, MeI, EtBr, Me2SO4; H, Cl, H, Me2N, 95.degree., HCl, V, VI; H, Cl, H, Et2N, 67.degree., HCl, VI-IX, MeI, EtBr, Me2SO4; H, Cl, H, N(CH2CH2OH)2, 101.degree., V-IX, MeI, EtBr, Me2SO4; H, Cl, H, morpholino, 125.degree., H2SO4, V-VIII, MeI, EtBr; H, Cl, H, piperidino, 135.degree., H3PO4, V-VIII, EtBr; H, Me, H, Et2N, 67.degree., H2SO4, V-VIII, MeI, EtBr, Me2SO4; H, Me, H, morpholino, 114.degree., V-VIII, MeI, EtBr, Me2SO4; H, Me, H, piperidino, 122.degree., H3PO4, V-VIII, MeI, EtBr, Me2SO4; H, MeO, H, Et2N, 90.degree., V-VII, EtBr, MeI; H, MeO, H, N(CH2CH2OH)2, 120.degree., HCl, V-VIII, MeI, EtBr; H, MeO, H, morpholino, 104.degree., HOAc, V-VIII, MeI, EtBr; H, MeO, H, piperidino, 118.degree., V-VIII, MeI; Cl, H, Cl, Et2N, --, HCl, V-IX; Cl, H, Cl, N(CH2CH2OH)2, --, V-VIII, MeI, EtBr; Cl, H, Cl, morpholino, --, HOAc, V-VIII, MeI, EtBr; Cl, H, Cl, piperidino, --, V-VIII, MeI; H, Cl, Cl, Et2N, 92.degree., HCl, V-IX; H, Cl, Cl, N(CH2CH2OH)2, 94.degree., V, VI; H, Cl, Cl, morpholino, 108.degree., HCl, V-VII, IX; H, Cl, Cl, piperidino, 116.degree., V-VIII; X (Q = morpholino) was dark yellow and m. 113.degree., and X (Q = piperidino) was brown and m. 127.degree.. R2 = R4 = H, R3 = Me). quaternizing salt Q, agent, color, m.p.; morpholino, V, light brown, 165.degree.; morpholino, VI, light brown, 159.degree.; morpholino, VII, light brown, 130.degree.; morpholino, VIII, yellow, 161.degree.; piperidino, V, brown, 115.degree.; piperidino, VI, brown, 124.degree.; piperidino, VII, brown, 125.degree.; piperidino, VIII, tan, 180.degree.; U.S. 3,170,910; 3 pp. Amines of the general formula I are prepd. and quaternized with a variety of agents to give cationic azo compds. of similar utility to those cited in the preceding patent. I are prepd. by treating a 4-arylazophenol with NaH in PhMe, followed by reaction of the Na salt with Me2NCH2CH2Cl (II). The product is quaternized in PhMe. Thus, 71.3 g. 4-HOC6H4N:NPh in 750 ml. PhMe is added to a suspension of 17.3 g. 50% NaH in 300 ml. PhMe, the mixt. refluxed 2 hrs. and then treated dropwise with 43 g. II in 100 ml. PhMe. After 16 hrs. refluxing the mixt. is filtered and the PhMe distd. at 1toreq.150.degree.in vacuo to give I (X = Y = H) (III), brown, m. 50.degree.; HCl salt, yellow, m. 188.degree.. Refluxing 5.5 g. III and 2.8 g. PhCH2Cl (IV) in 75 ml. PhMe for 16 hrs. ppts. the quaternary deriv., yellow, m. 185.degree.. Other derivs. of III prepd. are (quaternizing agent and m.p. given): 4-ClC6H4CH2Cl (V), 176.degree.; 4-MeOC6H4CH2Cl, 189.degree.; BuBr, 231.degree.; Me2SO4, 171.degree.. Also prepd. are the brown I given in the table. Quaternary Salt X, Y, m.p., quarternizing agent, color , m.p.; Cl, H, 74.degree., HCl, light brown, 217.degree.; Cl, H, --, IV, yellow-tan, 204-6.degree.; Cl, H, --, V, yellow-tan, 213-14.degree.; Cl, OH, 96.degree., V, orange, 194.degree.; Cl, OMe, 77.degree., V, yellow, 205.degree.;

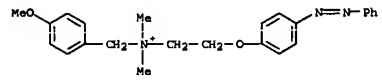
IT 3157-80-0, Ammonium, (p-chlorobenzyl)dimethyl[2-[p-(phenylazo)phenoxy]ethyl], chloride 3157-81-1, Ammonium, (p-methoxybenzyl)dimethyl[2-[p-(phenylazo)-phenoxy]ethyl], chloride 3157-82-2, Ammonium, butyldimethyl[2-[p-(phenylazo)phenoxy]ethyl], bromide 3157-84-4, Ammonium, benzyl[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl, chloride 3157-85-5, Ammonium, benzyldimethyl[2-[p-(phenylazo)phenoxy]-ethyl], chloride 3157-86-6, Ammonium, (p-chlorobenzyl)[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl, chloride 3157-88-8, Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-hydroxyphenoxy]ethyl]dimethyl, chloride 3157-90-2, Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-methoxyphenoxy]ethyl]dimethyl, chloride
(prepn. of)

RN 3157-80-0 CAPLUS
CN Ammonium, (p-chlorobenzyl)dimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, chloride (8CI) (CA INDEX NAME)



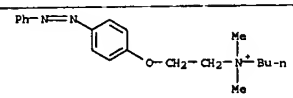
● Cl⁻

RN 3157-81-1 CAPLUS
CN Ammonium, (p-methoxybenzyl)dimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, chloride (8CI) (CA INDEX NAME)



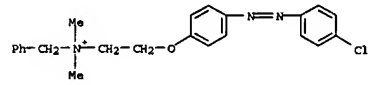
● Cl⁻

RN 3157-82-2 CAPLUS
CN Ammonium, butyldimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, bromide (8CI) (CA INDEX NAME)



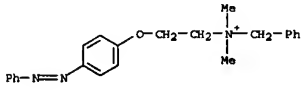
● Br⁻

RN 3157-84-4 CAPLUS
CN Ammonium, benzyl[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



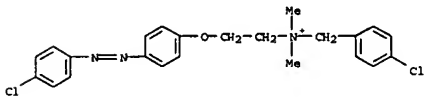
● Cl⁻

RN 3157-85-5 CAPLUS
CN Ammonium, benzyldimethyl[2-[p-(phenylazo)phenoxy]ethyl]-, chloride (8CI) (CA INDEX NAME)



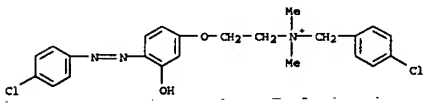
● Cl⁻

RN 3157-86-6 CAPLUS
CN Ammonium, (p-chlorobenzyl)[2-[p-[(p-chlorophenyl)azo]phenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



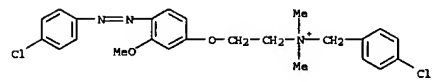
● Cl⁻

RN 3157-88-8 CAPLUS
CN Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-hydroxyphenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



● Cl⁻

RN 3157-90-2 CAPLUS
CN Ammonium, (p-chlorobenzyl)[2-[4-[(p-chlorophenyl)azo]-3-methoxyphenoxy]ethyl]dimethyl-, chloride (8CI) (CA INDEX NAME)



● Cl⁻

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FULL ESTIMATED COST	135.14	452.70
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-17.58	-20.18

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=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	452.76
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-20.18

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FILE COVERS 1907 - 3 Oct 2003 VOL 139 ISS 15
FILE LAST UPDATED: 2 Oct 2003 (20031002/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> file caplus

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COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY      SESSION
FULL ESTIMATED COST                              9.17       461.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                ENTRY      SESSION
CA SUBSCRIBER PRICE                              0.00       -20.18

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FILE COVERS 1907 - 3 Oct 2003  VOL 139 ISS 15
FILE LAST UPDATED: 2 Oct 2003  (20031002/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> E COLEMAN M E/AU 25
E1            10      COLEMAN M C/AU
E2            57      COLEMAN M D/AU
E3            13 --> COLEMAN M E/AU
E4             4      COLEMAN M F/AU
E5             1      COLEMAN M F M/AU
E6            11      COLEMAN M G/AU
E7            15      COLEMAN M H/AU
E8             1      COLEMAN M I/AU
E9            10      COLEMAN M J/AU
E10            3      COLEMAN M K/AU
E11           48      COLEMAN M L/AU
E12           82      COLEMAN M M/AU
E13            8      COLEMAN M P/AU
E14           22      COLEMAN M R/AU
E15            9      COLEMAN M S/AU
E16            2      COLEMAN M T/AU
E17            4      COLEMAN M TODD/AU
E18            1      COLEMAN M U/AU
E19           13      COLEMAN M V/AU
E20            7      COLEMAN M W/AU
E21            1      COLEMAN MABEL R/AU
E22            1      COLEMAN MALCOLM D/AU
E23            1      COLEMAN MALLORY J/AU
E24            1      COLEMAN MARC D/AU
E25            1      COLEMAN MARCIA LEPRI/AU

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L12           13 "COLEMAN M E"/AU

=> d 1-13

L12  ANSWER 1 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   2001:301469  CAPLUS
DN   134:365967
TI   Transgenic research to enhance growth and lean carcass composition in
     swine
AU   Pursel, V. G.; Mitchell, A. D.; Wall, R. J.; Solomon, M. B.; Coleman,
     M. E.; Schwartz, R. J.
CS   Beltsville Agricultural Research Center, USDA, ARS, Beltsville, MD, 20705,
     USA
SO   Molecular Farming, Proceedings of the OECD Workshop, La Grande Motte,
     France, Sept. 3-6, 2000 (2001), Meeting Date 2000, 77-86.  Editor(s):
     Toutant, Jean-Pierre; Balazs, Ervin. Publisher: Institut National de la
     Recherche Agronomique, Paris, Fr.
     CODEN: 69BFLY; ISSN: 1159-554X
DT   Conference
LA   English
RE.CNT  18    THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12  ANSWER 2 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1999:538705  CAPLUS
DN   131:321936
TI   Expression of insulin-like growth factor-I in skeletal muscle of
     transgenic swine
AU   Pursel, V. G.; Wall, R. J.; Mitchell, A. D.; Elsasser, T. H.; Solomon, M.
     B.; Coleman, M. E.; DeMayo, F.; Schwartz, R. J.
CS   USDA-ARS, Beltsville, MD, USA
SO   Transgenic Animals in Agriculture, [Papers presented at a Conference],
     Tahoe City, Calif., Aug., 1997 (1999), Meeting Date 1997, 131-144.
     Editor(s): Murray, James D. Publisher: CABI Publishing, Wallingford, UK.
     CODEN: 68ABAX
DT   Conference
LA   English
RE.CNT  20    THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12  ANSWER 3 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1994:596775  CAPLUS
DN   121:196775
TI   Porcine insulin-like growth factor (IGF)-binding protein-3 elicits
     biphasic effects on IGF-I stimulated DNA synthesis in neonatal porcine
     skin fibroblasts
AU   Coleman, M. E.; Etherton, T. D.
CS   Department Cell Biology, Baylor College Medicine, Houston, TX, 77030, USA
SO   Domestic Animal Endocrinology (1994), 11(3), 299-305
     CODEN: DANEEE; ISSN: 0739-7240
DT   Journal
LA   English

L12  ANSWER 4 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1994:261764  CAPLUS
DN   120:261764
TI   Porcine somatotropin (pST) increases IGF-I mRNA abundance in liver and
     subcutaneous adipose tissue but not in skeletal muscle of growing pigs
AU   Coleman, M. E.; Russell, L.; Etherton, T. D.
CS   Dep. Dairy Anim. Sci., Pennsylvania State Univ., University Park, PA,
     16802, USA
SO   Journal of Animal Science (Savoy, IL, United States) (1994), 72(4), 918-24
     CODEN: JANSAG; ISSN: 0021-8812
DT   Journal
LA   English

L12  ANSWER 5 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1992:228598  CAPLUS
DN   116:228598
TI   Growth hormone-binding proteins in pig adipose tissue: number, size and
     effects of pGH treatment on pGH and bGH binding
AU   Soerensen, M. T.; Chaudhuri, S.; Louveau, I.; Coleman, M. E.;
     Etherton, T. D.
CS   Natl. Inst. Anim. Sci., Tjele, DK-8830, Den.
SO   Domestic Animal Endocrinology (1992), 9(1), 13-24
     CODEN: DANEEE; ISSN: 0739-7240
DT   Journal
LA   English

L12  ANSWER 6 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1992:146340  CAPLUS
DN   116:146340
TI   Identification and amino-terminal amino acid sequence of three
     insulin-like growth factor-binding proteins in porcine serum
AU   Coleman, M. E.; Pan, Y. C. E.; Etherton, T. D.
CS   Dep. Dairy Anim. Sci., Pennsylvania State Univ., University Park, PA,
     16802, USA
SO   Biochemical and Biophysical Research Communications (1991), 181(3), 1131-6
     CODEN: BBRCA9; ISSN: 0006-291X
DT   Journal
LA   English

L12  ANSWER 7 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1991:95385  CAPLUS
DN   114:95385
TI   Effects of exogenous porcine growth hormone on serum insulin-like growth
     factor-binding proteins in growing pigs
AU   Coleman, M. E.; Etherton, T. D.
CS   Dep. Dairy Anim. Sci., Pennsylvania State Univ., University Park, PA,
     16802, USA
SO   Journal of Endocrinology (1991), 128(2), 175-80, 2 plates
     CODEN: JOENAK; ISSN: 0022-0795
DT   Journal
LA   English

L12  ANSWER 8 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1988:130427  CAPLUS
DN   108:130427
TI   Lipid synthesis and adipocyte growth in adipose tissue from sheep
     chronically fed a beta-adrenergic agent
AU   Coleman, M. E.; Ekeren, P. A.; Smith, S. B.
CS   Dep. Anim. Sci., Texas A and M Univ., College Station, TX, 77843, USA
SO   Journal of Animal Science (Savoy, IL, United States) (1988), 66(2), 372-8
     CODEN: JANSAG; ISSN: 0021-8812
DT   Journal
LA   English

L12  ANSWER 9 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1988:111123  CAPLUS
DN   108:111123
TI   Adipose tissue, longissimus muscle and anterior pituitary growth and
     function in clenbuterol-fed heifers
AU   Miller, M. F.; Garcia, D. K.; Coleman, M. E.; Ekeren, P. A.;
     Lunt, D. K.; Wagner, K. A.; Procknor, M.; Welsh, T. H., Jr.; Smith, S. B.
CS   Dep. Anim. Sci., Texas A and M Univ., College Station, TX, 77843, USA
SO   Journal of Animal Science (Savoy, IL, United States) (1988), 66(1), 12-20
     CODEN: JANSAG; ISSN: 0021-8812
DT   Journal
LA   English

L12  ANSWER 10 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1984:634774  CAPLUS
DN   101:234774
TI   Toxicological evaluation on the Columbia spacecraft
AU   Rippstein, W. J.; Coleman, M. E.
CS   USA
SO   Kosmicheskaya Biologiya i Aviakosmicheskaya Meditsina (1984), 18(4), 87-96
     CODEN: KBAMAJ; ISSN: 0321-5040
DT   Journal
LA   Russian

L12  ANSWER 11 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1979:587116  CAPLUS
DN   91:187116
TI   Mammary tumors and serum hormones in the bitch treated with
     medroxyprogesterone acetate or progesterone for four years
AU   Frank, D. W.; Kirton, K. T.; Murchison, T. E.; Quinlan, W. J.;
     Coleman, M. E.; Gilbertson, T. J.; Feenstra, E. S.; Kimball, F. A.
CS   Upjohn Co., Kalamazoo, MI, USA
SO   Report (1978), UR-3490-1550, 21 pp.  Avail.: NTIS
     From: Energy Res. Abstr. 1979, 4(15), Abstr. No. 41726
DT   Report
LA   English

L12  ANSWER 12 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1965:93814  CAPLUS
DN   62:93814
OREF 62:16831b-c
TI   Nicotine-like stimulant actions of several substituted phenylcholine
     ethers
AU   Coleman, M. E.; Hume, A. H.; Holland, W. C.
CS   Univ. of Mississippi, Jackson
SO   Journal of Pharmacology and Experimental Therapeutics (1965), 148(1),
     66-70
     CODEN: JPETAB; ISSN: 0022-3565
DT   Journal
LA   English

L12  ANSWER 13 OF 13  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1964:427679  CAPLUS
DN   61:27679
OREF 61:4833h,4834a-b
TI   Vasopressor activity of cycloalkanecarbonylcholines
AU   Coleman, M. E.; Holland, W. C.
CS   Univ. Mississippi Med. Center, Jackson
SO   Journal of Pharmacology and Experimental Therapeutics (1964), 144(2),
     214-17
     CODEN: JPETAB; ISSN: 0022-3565
DT   Journal
LA   Unavailable

=> E HUME A H/AU 25
E1            1      HUMCKE BOGNER ROBIN/AU
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E3            1 --> HUME A H/AU
E4            1      HUME A M/AU
E5           11      HUME A N/AU
E6            1      HUME A P/AU
E7           14      HUME A S/AU
E8            2      HUME ADAM/AU
E9            2      HUME ALAN/AU
E10           1      HUME ALFRED/AU
E11           9      HUME ALISTAIR N/AU
E12           2      HUME ALISTER CUMMING/AU
E13           3      HUME ALLAN R/AU
E14           1      HUME ANN L/AU
E15           4      HUME ANNE L/AU
E16           1      HUME ANNE LAMONT/AU
E17          27      HUME ARTHUR S/AU
E18           1      HUME ARTHUR SCOTT/AU
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E19          1     HUME BOB/AU
E20          2     HUME BRUCE A/AU
E21          1     HUME C B/AU
E22         12     HUME C J/AU
E23          1     HUME C R/AU
E24          1     HUME CARL/AU
E25          1     HUME CHRIS/AU

=> file reg
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY    SESSION
FULL ESTIMATED COST                             20.66     482.59

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                              ENTRY    SESSION
CA SUBSCRIBER PRICE                              0.00     -20.18

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STRUCTURE FILE UPDATES:  1 OCT 2003  HIGHEST RN 596788-60-2
DICTIONARY FILE UPDATES:  1 OCT 2003  HIGHEST RN 596788-60-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s dimethylaminophenoxy
L13          78 DIMETHYLAMINOPHENOXY

=> s l13 and ethanaminium
         33764 ETHANAMINIUM
L14           0 L13 AND ETHANAMINIUM

=> sl13 and choline
SL13 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l13 and choline
          4329 CHOLINE
            28 CHOLINES
          4329 CHOLINE
                 (CHOLINE OR CHOLINES)
L15           0 L13 AND CHOLINE

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COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY    SESSION
FULL ESTIMATED COST                             13.46     496.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                              ENTRY    SESSION
CA SUBSCRIBER PRICE                              0.00     -20.18

FILE 'CAPLUS' ENTERED AT 13:17:19 ON 03 OCT 2003
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FILE COVERS 1907 - 3 Oct 2003  VOL 139 ISS 15
FILE LAST UPDATED: 2 Oct 2003  (20031002/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l13 and choline
            44 L13
         46894 CHOLINE
           369 CHOLINES
         47043 CHOLINE
                 (CHOLINE OR CHOLINES)
L16           0 L13 AND CHOLINE

=> s l13 and dye
            44 L13
        230596 DYE
        194014 DYES
        303309 DYE
                 (DYE OR DYES)
L17           1 L13 AND DYE

=> d

L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1975:162902  CAPLUS
DN   82:162902
TI   Dye-sensitized photolysis of diazonium compounds.  IV.
     Detection of short-lived free radicals by electron spin resonance spin
     trapping techniques
AU   Yamase, Toshihiro; Ikawa, Tsuneo; Kokado, Hiroshi; Inoue, Eiichi
CS   Res. Lab. Resour. Util., Tokyo Inst. Technol., Tokyo, Japan
SO   Photographic Science and Engineering (1974), 18(6), 647-51
     CODEN: PSENAC; ISSN: 0031-8760
DT   Journal
LA   English

=> d abs

L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
AB   The dye-sensitized photolysis of diazonium salts was studied by
     spin trapping with 2-methyl-2-nitrosopropane.  A nitroxide radical
     exhibiting 3 .times. 2 line structure in the ESR spectrum was formed
     during dye sensitization.  The nitroxide radical could also be
     obtained from uv photolysis of diazonium salts.  The uv photolysis of some
     diazonium cations such as the p-dimethylamino or
     diethylaminobenzenediazonium cation gave corresponding phenoxy radicals as
     untrapped radicals in addn. to the nitroxide.  The proton hyperfine
     splitting consts. in nitroxide radicals ranged as a function of diazonium
     salt examd. from 4.0 to 7.8 gauss for p-diethylaminobenzene- and
     2-methoxynaphthalenediazonium salts, resp. while the N hyperfine splitting
     consts. were nearly identical.  The significant formation of phenoxy
     radicals was characteristic of uv photolysis of diazonium salts.  The
     presence of acrylamide brought about a remarkable depression of the
     formation of uv-induced phenoxy radical in deaerated systems.  The
     observation of nitroxide radicals in the dye sensitization gave
     valid evidence for an electron transfer mechanism.

=> d his

     (FILE 'HOME' ENTERED AT 12:38:21 ON 03 OCT 2003)

     FILE 'REGISTRY' ENTERED AT 12:38:31 ON 03 OCT 2003
L1                STRUCTURE UPLOADED
L2             0 S L1
L3            19 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 12:39:37 ON 03 OCT 2003
L4             4 S L3

     FILE 'REGISTRY' ENTERED AT 12:43:07 ON 03 OCT 2003
L5                STRUCTURE UPLOADED
L6            18 S L5
L7           361 S L5 SSS FULL

     FILE 'CAPLUS' ENTERED AT 12:43:36 ON 03 OCT 2003
L8           102 S L7
L9             1 S L8 AND META
L10           18 S L8 AND AMINO
L11            8 S L8 AND DIMETHYLAMINO

     FILE 'STNGUIDE' ENTERED AT 12:54:16 ON 03 OCT 2003

     FILE 'CAPLUS' ENTERED AT 12:54:20 ON 03 OCT 2003

     FILE 'CAPLUS' ENTERED AT 13:07:36 ON 03 OCT 2003
                E COLEMAN M E/AU 25
L12            13 S E3
                E HUME A H/AU 25

     FILE 'REGISTRY' ENTERED AT 13:16:10 ON 03 OCT 2003
L13            78 S DIMETHYLAMINOPHENOXY
L14             0 S L13 AND ETHANAMINIUM
L15             0 S L13 AND CHOLINE

     FILE 'CAPLUS' ENTERED AT 13:17:19 ON 03 OCT 2003
L16             0 S L13 AND CHOLINE
L17             1 S L13 AND DYE

=> s l8 not l9
L18           101 L8 NOT L9

=> s l8 not l10
L19            84 L8 NOT L10

=> s l18 not l10
L20            84 L18 NOT L10

=> s l20 not l11
L21            81 L20 NOT L11

=> s l21 and nicotine
         24756 NICOTINE
            72 NICOTINES
         24764 NICOTINE
                 (NICOTINE OR NICOTINES)
L22           1 L21 AND NICOTINE

=> d

L22  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   1969:484689  CAPLUS
DN   71:84689
TI   Molecular orbital calculations on a new series of substituted-phenyl
     choline ethers
AU   Crow, James; Wassermann, Otmar; Holland, William C.
CS   Sch. of Med., Univ. of Mississippi, Jackson, MS, USA
SO   Journal of Medicinal Chemistry (1969), 12(5), 764-6
     CODEN: JMCMAR; ISSN: 0022-2623
DT   Journal
LA   English

=> d abs

L22  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
AB   In addn. to the onium head, it has been suggested that the electron d. at
     some other points in the mol. of phenyl and substituted-phenyl choline
     ethers contribute to the intensity of nicotine-like activity.
     Simple Hueckel M.O. calcns. revealed that charge ds. in the remainder of
     the mol. could not be correlated with pharmacologic activity.  However,
     superdelocalizability at ring positions 2 and 6 and the energy of the
     highest occupied M.O. showed good parallelism with biologic activity.  It
     was suggested that the aromatic ring may interact with the receptor by
     forming a charge-transfer complex.

=> d l22 hitstr

L22  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
IT   369-38-0 370-43-4
     RL: PRP (Properties)
         (mol. orbitals of)
RN   369-38-0  CAPLUS
CN   Ethanaminium, N,N,N-trimethyl-2-(3-nitrophenoxy)-, bromide (9CI)  (CA
     INDEX NAME)
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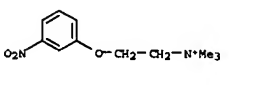


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● Br-

RN   370-43-4  CAPLUS
CN   Ethanaminium, 2-(3-aminophenoxy)-N,N,N-trimethyl-, bromide (9CI)  (CA
     INDEX NAME)
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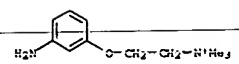


● Br⁻

=> s l21 not l22
L23 80 L21 NOT L22

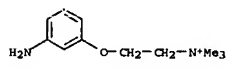
=> s l23 and phenylcholine
19 PHENYLCHOLINE
1 PHENYLCHOLINES
19 PHENYLCHOLINE
(PHENYLCHOLINE OR PHENYLCHOLINES)
L24 1 L23 AND PHENYLCHOLINE

=> d

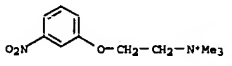
L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1979:551075 CAPLUS
DN 91:151075
TI A quantitative aspect of charge-transfer phenomenon in the biological activity of hallucinogens, local anesthetics and nicotinic agents
AU Gupta, S. P.; Singh, P.
CS Dep. Chem., Birla Inst. Technol. Sci., Pilani, 333 031, India
SO Proceedings - Indian Academy of Sciences, Section A (1979), 88A(Pt. 1, No. 3), 171-7
CODEN: PISAA7; ISSN: 0370-0089
DT Journal
LA English

=> d abs hitstr

L24 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AB The qual. electronic structure-activity relations suggesting that hallucinogens, local anesthetics, and nicotinic agents exert their biol. effects through the formation of charge-transfer complexes with the receptors were tested statistically. The statistical test supported the suggestion aznd further suggested that along with the charge-transfer mechanism a secondary binding is also involved in the activity of nicotinic agents.
IT 71601-69-9 71601-71-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(nicotinic activity of, structure in relation to)
RN 71601-69-9 CAPLUS
CN Ethanaminium, 2-(3-aminophenoxy)-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



RN 71601-71-3 CAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-(3-nitrophenoxy)- (9CI) (CA INDEX NAME)



=> s l23 not l24
L25 79 L23 NOT L24

=> s l25 and nicotine
24756 NICOTINE
72 NICOTINES
24764 NICOTINE
(NICOTINE OR NICOTINES)
L26 0 L25 AND NICOTINE

=> s l25 and ether?
512188 ETHER?
L27 8 L25 AND ETHER?

=> d l-8 ibib abs hitstr

L27 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1998:584279 CAPLUS
DOCUMENT NUMBER: 129:260167
TITLE: Synthesis of quaternary salts of ammonia from phenols and their plant growth retardant activity
AUTHOR(S): Sharma, M. L.; Talwar, K. K.; Duggal, Reema
CORPORATE SOURCE: Department of Chemistry, Punjab Agricultural University, Ludhiana, 141 004, India
SOURCE: Journal of the Indian Chemical Society (1998), 75(6), 381-383
CODEN: JICSAH; ISSN: 0019-4522
PUBLISHER: Indian Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
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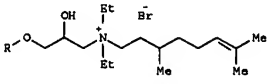
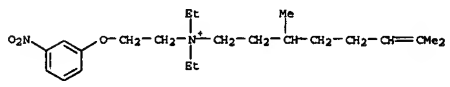


I

AB Phenols ROH (R = .beta.-naphthyl, 4-ClC6H4, 4-MeOC6H4, 3-O2NC6H4) were converted into (diethylamino)propanols ROCH2CH(OH)CH2NEt2 via intermediate glycidyl ethers. ROH (R = 3-O2NC6H4, 4-ClC6H4) were converted phenoxyethylamines ROCH2CH2NEt2 via intermediate bromoethyl ethers ROCH2CH2Br. 1,3-Bis[2-(diethylamino)ethoxy]benzene was prepd. from resorcinol. These tertiary amines were quaternized with citronellyl bromide and resulting ammonium salts, e.g. I, were tested as plant growth retardants. All the ammonium salts inhibited germination and seedling growth of turnip seeds.

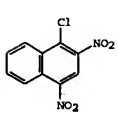
IT 213606-52-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and plant growth retardant activity of (phenoxyalkyl)diethylcitronellyl quaternary salts)
RN 213606-52-1 CAPLUS
CN 6-Octen-1-aminium, N,N-diethyl-3,7-dimethyl-N-[2-(3-nitrophenoxy)ethyl]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

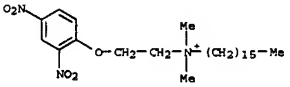
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1984:5476 CAPLUS
DOCUMENT NUMBER: 100:5476
TITLE: Dephosphorylation and aromatic nucleophilic substitution in an alkoxide functionalized micelle
AUTHOR(S): Bunton, Clifford A.; Gan, Leong Huat; Savelli, Gianfranco
CORPORATE SOURCE: Dep. Chem., Univ. California, Santa Barbara, CA, 93106, USA
SOURCE: Journal of Physical Chemistry (1983), 87(26), 5491-8
CODEN: JPCHAX; ISSN: 0022-3654
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

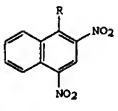


I

AB Dephosphorylation of p-O2NC6H4OP(O)(OPh)2 and arom. nucleophilic substitution of 2,4-(O2N)2C6H3Cl or I are examd. in aq. micelles of n-C16H33N+Me2CH2CH2OH OH- (II). The variation of the pseudo-1st-order rate const. with the concn. of II and OH- is fitted to equations which describe the distributions of substrate and OH- between aq. and micellar pseudophases. The first-formed products of arom. nucleophilic substitution are ethers formed by the attack of n-C16H33N+Me2CH2CH2O- (III). The ethers react with micellar bound OH- to give aryloxide anion; the rate consts. for these slower reactions in relatively dil. OH- are fitted to a model which describes the distribution of OH- between aq. and micellar pseudophases. The 2nd-order rate consts. for the reactions with III or OH- in the micellar pseudophase are estd. and compared with the reactions of OH- and Me3N+CH2CH2O- (a model alkoxide zwitterion) in H2O. The rate consts. in the micelles are larger than in H2O for arom. nucleophilic substitution, but smaller than in H2O for dephosphoryltion. The elec. cond. of aq. II is consistent with the formation of III.
IT 61095-52-1P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(formation and reaction of, with hydroxide anions under aq. micellar conditions, kinetics of)
RN 61095-52-1 CAPLUS
CN 1-Hexadecanaminium, N-[2-(2,4-dinitrophenoxy)ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



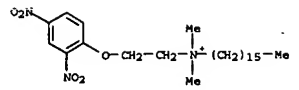
L27 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1983:487392 CAPLUS
DOCUMENT NUMBER: 99:87392
TITLE: Nucleophilic aromatic substitution in microemulsions of a hydroxyethyl surfactant
AUTHOR(S): Bunton, Clifford A.; De Buzzaccarini, Francesco; Hamed, Fareed H.
CORPORATE SOURCE: Dep. Chem., Univ. California, Santa Barbara, CA, 93106, USA
SOURCE: Journal of Organic Chemistry (1983), 48(15), 2461-5
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



IV

AB The reactions of 2,4-(O2N)2C6H3R (I; R = Cl, F) in microemulsions of n-C16H33N+(CH2CH2OH)Me2 Br-, n-octane, and Me2C(OH)Et or BuOH, and NaOH gives I (R = OCH2CH2N+Me2C16H33-n) (II) by the attack of n-C16H33N+Me2CH2CH2O- (III) on I (R = halo). II slowly reacts with OH- to give I (R = O-). These reactions are slower than those in aq. micelles. The micellar reactions of IV (R = Cl) with III or BuO- to give IV (R = O-) via the Meisenheimer complexes were also examd. The kinetics of these reactions were detd.
IT 61095-52-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(nucleophilic arom. substitution reaction of, with hydroxide anion in microemulsion, kinetics of)

RN 61095-52-1 CAPLUS
CN 1-Hexadecanaminium, N-[2-(2,4-dinitrophenoxy)ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

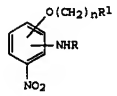


L27 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1977:503366 CAPLUS
DOCUMENT NUMBER: 87:103366
TITLE: Dye compositions, for human hair, containing ether groups
INVENTOR(S): Bugaut, Andree; Andrillon, Patrick
PATENT ASSIGNEE(S): Oreal S. A., Fr.
SOURCE: Belg., 50 pp. Addn. to Belg. 835,223.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 843004	A4	19761216	BE 1976-167969	19760616
FR 2349325	A2	19771125	FR 1976-12985	19760430
FR 2349325	B2	19790615		
US 4337061	A	19820629	US 1976-682798	19760503
CH 616840	A	19800430	CH 1976-7680	19760715
DE 2633250	A1	19771110	DE 1976-2633250	19760723
DE 2633250	C2	19880114		
CA 1091687	A1	19801216	CA 1976-258048	19760729
GB 1531605	A	19781108	GB 1976-31942	19760730
US 4417896	A	19831129	US 1982-365993	19820406

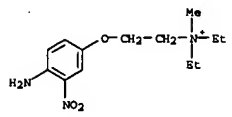
PRIORITY APPLN. INFO.: FR 1976-12985 19760430
FR 1974-36651 19741105
GB 1975-45788 19751104
US 1975-628999 19751105
US 1976-682798 19760503

GI



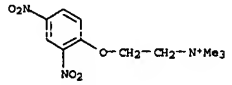
I

AB Hair dyes (I; R = H, Me, CH2CH2OH; R1 = CONEt2, OMe, NH2, NHSO2Me, NHCO2Et, NHMe, NHCONH2, N+MeEt2 I-; n = 1, 2) are prepd. and used in direct and oxidative hair dyeing compns. Thus, 4,2-HO(O2N)C6H3NH2 [610-81-1] was treated with ClCH2CONEt2 [2315-36-8] to give 4,3-H2N(O2N)C6H3OCH2CONEt2 [63810-77-5].
IT 63810-76-4
RL: USES (Uses)
(dye, for hair, prepn. of)
RN 63810-76-4 CAPLUS
CN Ethanaminium, 2-(4-amino-3-nitrophenoxy)-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)

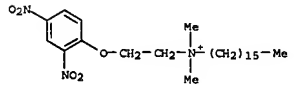


● I-

L27 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1977:4480 CAPLUS
DOCUMENT NUMBER: 86:4480
TITLE: Aromatic nucleophilic substitution in nucleophilic surfactants. Comparison with alkoxide reactions
AUTHOR(S): Bunton, Clifford A.; Diaz, Simon
CORPORATE SOURCE: Dep. Chem., Univ. California, Santa Barbara, CA, USA
SOURCE: Journal of the American Chemical Society (1976), 98(18), 5663-71
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reactions of 2,4-dinitrochloro- and fluorobenzene (I and II) with the alkoxide ions of choline, propargyl alc., and 2,2,2-trifluoroethanol give ether intermediates which react readily with hydroxide ion. The nucleophilicities of the alkoxides toward I and II relative to OH- in water at 25.0.degree. and the second-order rate consts. for reaction of I, II, or the ethers toward OH- are given. Micelles of hexadecyl(2-hydroxyethyl)dimethylammonium bromide are effective reagents toward I and II at high pH and for ionization of the hydroxy group pKa .apprx.12.3. The reactivity of the 2,4-dinitrophenyl ether of III in micelles of Ia is 260 times that of the corresponding ether of choline in water, and the overall rates of nucleophilic attack on II and I in micelles of III are 6000 and 14000, resp., relative to reaction in water.
IT 61095-51-0 61095-52-1
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(hydrolysis of, kinetics of)
RN 61095-51-0 CAPLUS
CN Ethanaminium, 2-(2,4-dinitrophenoxy)-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



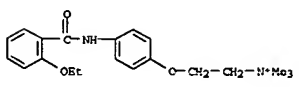
RN 61095-52-1 CAPLUS
CN 1-Hexadecanaminium, N-[2-(2,4-dinitrophenoxy)ethyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L27 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1975:139777 CAPLUS
DOCUMENT NUMBER: 82:139777
TITLE: N-(o-Hydroxybenzoyl)-p-(2-dialkylaminoethoxy)phenylamine, its O-substituted derivatives, quaternary salts, and intermediates
PATENT ASSIGNEE(S): Menarini, A., S.a.S.
SOURCE: Fr. Demande, 12 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

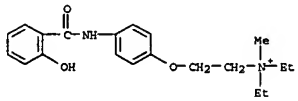
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2223005	A1	19741025	FR 1973-10737	19730326
FR 2223005	B1	19760409		

PRIORITY APPLN. INFO.: FR 1973-10737 19730326
AB Twelve salicylanilides (I; R = Me, Et; R1 = H, C1-8 alkyl, PhCH2, PhCH2CH2, PhCH2CH2CH2), useful as coronary dilators and spasmolytics, were prepd. by amidation of salicylic acid chlorides, esters, or anhydrides with 4-(R2NCH2CH2O)C6H4NH2 and etherification of 4-(2-R1OC6H4CONH)C6H4OH with R2NCH2CH2X (X = halo).
IT 54090-24-3P 54184-08-6P 54184-09-7P
54184-10-0P 54184-11-1P 54184-12-2P
54184-13-3P 54184-14-4P 54184-16-6P
54184-17-7P 54184-18-8P 55620-16-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and biol. activity of)
RN 54090-24-3 CAPLUS
CN Ethanaminium, 2-[4-[(2-ethoxybenzoyl)amino]phenoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)



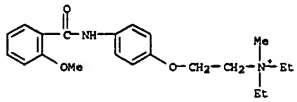
● Br-

RN 54184-08-6 CAPLUS
CN Ethanaminium, N,N-diethyl-2-[4-[(2-hydroxybenzoyl)amino]phenoxy]-N-methyl-, bromide (9CI) (CA INDEX NAME)



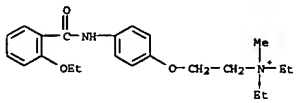
● Br-

RN 54184-09-7 CAPLUS
CN Ethanaminium, N,N-diethyl-2-[4-[(2-methoxybenzoyl)amino]phenoxy]-N-methyl-, bromide (9CI) (CA INDEX NAME)



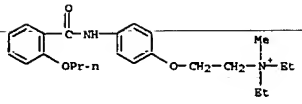
● Br-

RN 54184-10-0 CAPLUS
CN Ethanaminium, 2-[4-[(2-ethoxybenzoyl)amino]phenoxy]-N,N-diethyl-N-methyl-, bromide (9CI) (CA INDEX NAME)



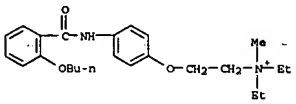
● Br-

RN 54184-11-1 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[(2-propoxybenzoyl)amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



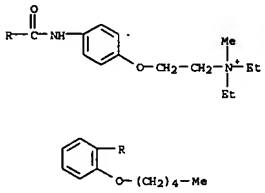
● Br⁻

RN 54184-12-2 CAPLUS
CN Ethanaminium, 2-[4-[(2-butoxybenzoyl)amino]phenoxy]-N,N-diethyl-N-methyl-, bromide (9CI) (CA INDEX NAME)



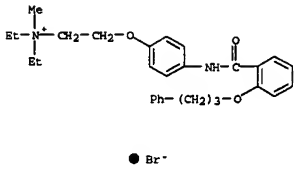
● Br⁻

RN 54184-13-3 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(pentyloxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



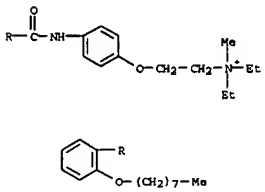
● Br⁻

RN 54184-14-4 CAPLUS
CN Ethanaminium, N,N-diethyl-2-[4-[[2-(heptyloxy)benzoyl]amino]phenoxy]-N-methyl-, bromide (9CI) (CA INDEX NAME)



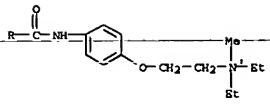
● Br⁻

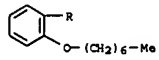
RN 55620-16-1 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(octyloxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

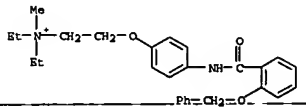
L27 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1974:82287 CAPLUS
DOCUMENT NUMBER: 80:82287
TITLE: Acetylcholine derivatives with an affinity for [acetylcholinesterase]
AUTHOR(S): Julia, Marc; Roger, Pierre
CORPORATE SOURCE: Serv. Chim. Ther., Inst. Pasteur, Paris, Fr.
SOURCE: Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences Chimiques (1974), 278(2), 151-4
CODEN: CHDCAQ; ISSN: 0567-6541
DOCUMENT TYPE: Journal
LANGUAGE: French
GI For diagram(s), see printed CA Issue.
AB 4-Nitroresorcinol is etherified by Cl(CH2)2NEt2 and NaOMe to give the diether (I) which is hydrogenated to the amine (II, R = H). II (R = H) is acylated to give II (R = Ac, ICH2CO, MeCN:CHCO). Also prepd. are the corresponding quaternary ammonium salts (III).
IT 51411-71-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and acylation of)
RN 51411-71-3 CAPLUS





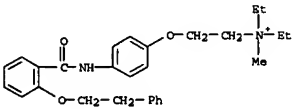
● Br⁻

RN 54184-16-6 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(phenylmethoxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

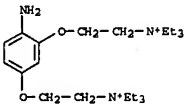
RN 54184-17-7 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(2-phenylethoxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)



● Br⁻

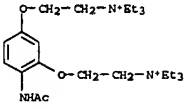
RN 54184-18-8 CAPLUS
CN Ethanaminium, N,N-diethyl-N-methyl-2-[4-[[2-(3-phenylpropoxy)benzoyl]amino]phenoxy]-, bromide (9CI) (CA INDEX NAME)

CN Ethanaminium, 2,2'-[(4-amino-1,3-phenylene)bis(oxy)]bis[N,N,N-triethyl-, diiodide (9CI) (CA INDEX NAME)



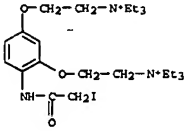
●2 I⁻

IT 51411-74-6P 51411-76-8P 51411-78-0P
51411-80-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 51411-74-6 CAPLUS
CN Ethanaminium, 2,2'-[(4-(acetylamino)-1,3-phenylene]bis(oxy)]bis[N,N,N-triethyl-, diiodide (9CI) (CA INDEX NAME)



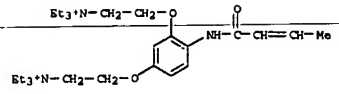
●2 I⁻

RN 51411-76-8 CAPLUS
CN Ethanaminium, 2,2'-[[4-[(iodoacetyl)amino]-1,3-phenylene]bis(oxy)]bis[N,N,N-triethyl-, diiodide (9CI) (CA INDEX NAME)



●2 I⁻

RN 51411-78-0 CAPLUS
CN Ethanaminium, 2,2'-[[4-[(1-oxo-2-butenyl)amino]-1,3-phenylene]bis(oxy)]bis[N,N,N-triethyl-, diiodide (9CI) (CA INDEX NAME)

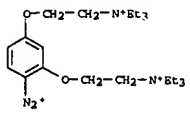


●2 I⁻

RN 51411-80-4 CAPLUS
CN Benzenediazonium, 2,4-bis[2-(triethylammonio)ethoxy]-, tris[tetrafluoroborate(1-)] (9CI) (CA INDEX NAME)

CM 1

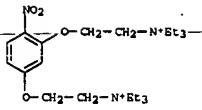
CRN 51411-79-1
CMF C22 H41 N4 O2



CM 2

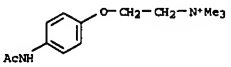
CRN 14874-70-5
CMF B F4
CCI CCS

IT 51411-70-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., hydrogenation and acylation of)
RN 51411-70-2 CAPLUS
CN Ethanaminium, 2,2'-[(4-nitro-1,3-phenylene)bis(oxy)]bis[N,N,N-triethyl-, diiodide (9CI) (CA INDEX NAME)

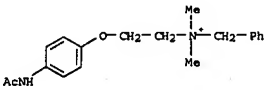


●2 I⁻

L27 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1970:29803 CAPLUS
DOCUMENT NUMBER: 72:29803
TITLE: Mechanism of binding choline derivatives to an anticholine antibody
AUTHOR(S): Metcalfe, James C.; Burgen, Arnold S. V.; Jardetzky, Oleg
CORPORATE SOURCE: Dep. Pharmacol., Univ. Cambridge, Cambridge, UK
SOURCE: Mol. Ass. Biol., Proc. Int. Symp. (1968), Meeting Date 1967. 487-97. Editor(s): Pullman, Bernard. Acad. Press: New York, N. Y.
CODEN: 21WFAS
DOCUMENT TYPE: Conference
LANGUAGE: English
AB When the NMR spectra of acetamidophenylcholine ether and its N-benzyl deriv. were examd. in the presence of specific anticholine antibody, selec - tive broadening of spectral lines was observed. In the presence of pooled .gamma.-globulin from nonimmunized rabbits, the effects were nonselective. The NMR spectrum of methacholine with anticholine antibody showed proportional broadening of all 3 types of Me groups. This suggests that the mol. is bound as a rigid unit, in contrast to the binding of the 1st named compds.
IT 18249-31-5 26574-98-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with choline antibodies)
RN 18249-31-5 CAPLUS
CN Ammonium, [2-(p-acetamidophenoxy)ethyl]trimethyl- (8CI) (CA INDEX NAME)



RN 26574-98-1 CAPLUS
CN Ammonium, [2-(p-acetamidophenoxy)ethyl]benzyldimethyl- (8CI) (CA INDEX NAME)



OREF 62:16831b-c
TI Nicotine-like stimulant actions of several substituted phenylcholine ethers
AU Coleman, M. E.; Hume, A. H.; Holland, W. C.
CS Univ. of Mississippi, Jackson
SO Journal of Pharmacology and Experimental Therapeutics (1965), 148(1), 66-70
CODEN: JPETAB; ISSN: 0022-3565
DT Journal
LA English

=> s 71601-71-3
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L29 1 L28

=> d

L29 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1979:551075 CAPLUS
DN 91:151075
TI A quantitative aspect of charge-transfer phenomenon in the biological activity of hallucinogens, local anesthetics and nicotinic agents
AU Gupta, S. P.; Singh, P.
CS Dep. Chem., Birla Inst. Technol. Sci., Pilani, 333 031, India
SO Proceedings - Indian Academy of Sciences, Section A (1979), 88A(Pt. 1, No. 3), 171-7
CODEN: PISAA7; ISSN: 0370-0089
DT Journal
LA English

=> s 370-43-4
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L31 2 L30

=> d 102
2 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):1-2

L31 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1969:484689 CAPLUS
DN 71:84689
TI Molecular orbital calculations on a new series of substituted-phenyl choline ethers
AU Crow, James; Wassermann, Otmar; Holland, William C.
CS Sch. of Med., Univ. of Mississippi, Jackson, MS, USA
SO Journal of Medicinal Chemistry (1969), 12(5), 764-6
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English

L31 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1965:93814 CAPLUS
DN 62:93814